18 18 - Confidential Status Letters Little

FILE NOTATIONS	
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COMPLETION DATA: Date Well Completed 8-1-77	Location Inspected
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	S FILED
Electric Logs (No.)	
Lat Mi-L	GR. GR.N. Micro.
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PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

April 29, 1977

906

Mr. Cleon Feight State of Utah Department of Natural Resources Division of Gas & Mining 1588 West, North Temple Salt Lake City, Utah 84116

Reference: PTS #44-5 Federal

Sec. 5-T10S-R24E Uintah County, Utah

Dear Mr. Feight,

Enclosed for your further handling are two copies each of the following for the captioned well:

- 1) Application for Permit to Drill (Form 9-331-C)
- 2) Well Prognosis
- 3) Casing, BOP and Pressure Containment Data
- 4) 13-Point Surface Use Plan for Well Location
- 5) Surveyor Plat
- 6) Location Layout

Solver 1 Marile Playson

7) Two topographic maps showing wellsite and vicinity

Very truly yours,

DEE E. BEARDSLEY

District Manager

DEB:a

enclosure

Dar Charles on Shakking in

rie 2 Maria

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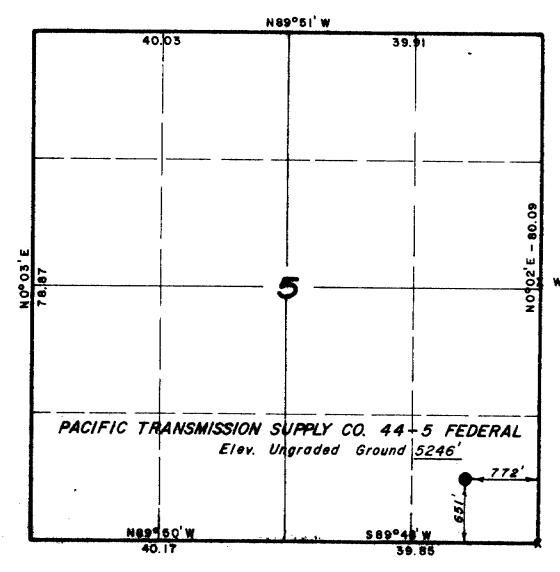
SUBMIT IN TRIPLION (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

	GEOLO	GICAL SURV	/EY			U-1207	ND SERIAL NO.
APPLICATION	N FOR PERMIT	TO DRILL,	DEEF	PEN, OR PLUG I	BACK	6. IF INDIAN, ALLOTTEE O	R TRIBE NAME
1a. TYPE OF WORK DR b. TYPE OF WELL	ILL 🗹	DEEPEN		PLUG BA	CK 🗌	7. UNIT AGBREMENT NAM Devil's Playg	round
WELL W	AS CELL OTHER			SINGLE MULTIP	1,6	8. FARM OR LEASE NAME	
	ISSION SUPPLY (COMPANY				9. WELL NO.	
	633 17th Street					PTS 44-5 Fede	ra1
	Denver, CO 802	202				10. FIELD AND POOL, OR	
f. LOCATION OF WELL (R At surface	eport location clearly and	I in accordance w	ith any	State requirements.*)		Wildcat	
At proposed prod. zon	L and 651' FSL 24E, SLM	of Sec. 5	SE	SE		Sec. 5, TIOS,	R24E
	AND DIRECTION FROM NEA	REST TOWN OR PO	ST OFFI	CE.		12. COUNTY OR PARISH	13. STATE
						Uintah	Utah
15. DISTANCE FROM PROPO LOCATION TO NEAREST	r		16. N	O. OF ACRES IN LEASE	17. NO. C	OF ACRES ASSIGNED HIS WELL	
(Also to nearest drig	g. unit line, if any)			1,886.07	10 11	320	
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OR APPLIED FOR, ON TH	IS LEASE, FT.		6.	500 *	Rot	ary	
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PERMIT NO.				APPROVAL DATE			
(ORIG. SGI	D.) E. W. GUYNN		_ :			.IIIN	1 3 1977
CONDITIONS OF APPROVA		TIT	TE DIS	TRICT ENGINEER		DATE	

TIOS, R24E, S. L.B. & M.



X = Corners Found & Used (Brass Caps)

PACIFIC TRANSMISSION SUPPLY CO.

Well location, PACIFIC TRANSMISSION SUPPLY CO. 44-5 FEDERAL, located as shown in the SEI/4 SEI/4 Section 5, TIOS, R24E, S.L.B.B.M., Uintah County, Utah.

W. I/4 Cor.

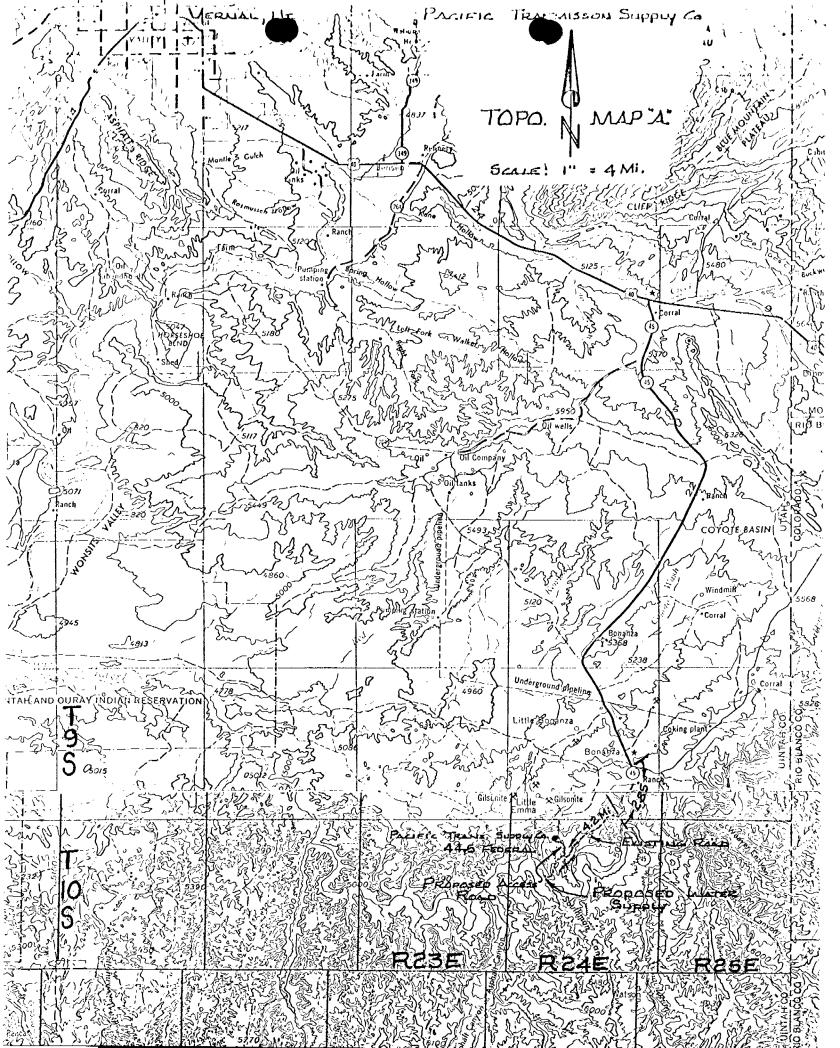
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE, BY ME OR) HOER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CONNECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF

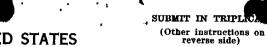
REGISTERED LAND SURVEYOR REGISTRATION NO 2454

UINTAH ENGINEERING & LAND SURVEYING P.O. BOX Q — 110 EAST - FIRST SOUTH VERNAL, UTAH - 84078

Warm	Pacific Transmission Supply Co	
WEATHER	FILE	
L.D.T. & J. L.	GLO Plats	
PARTY	REFERENCES	
1" = 1000'	22 April 1977	
SCALE	DATE	



CONDITIONS OF APPROVAL, IF ANY:



Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY						5. LEASE DESIGNATION U-1207	AND SEBIAL NO.
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·	C TRANSMISSION	SHPPLY COME	VΜV			9. WELL NO.	
3. ADDRESS OF OPERATOR	633 17th Street	E COIN	TINI			PTS 44-5 Fee	ieral
	Denver, CO 803	202				10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL (I At surface	Report location clearly and	in accordance wi	th any	State requirements.*)		Wildcat	
1105,	R24E, SLM					11. SEC., T., R., M., OR I AND SURVEY OF AR SEC. 5, TIO	R24E
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFIC	E*		12. COUNTY OR PARISH	13. STATE
15 Dight Non Brow Pro-	ann B					Uintah	Utah
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8IGNED	Wen	TIT	<u>ьь Е</u>	ngineer		DATE 4/26/77	·
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APPROVED BY		TIT	LE			DATE	

WELL PROGNOSIS PTS 44-5 Federal Proposed Devil's Playground Unit Well

Location: 772' from East Line 651' from South Line

SESE Section 5, T10S, R24E, SLM, Uintah County, Utah

The PTS 44-5 Federal will be drilled by PTS as the unit well in the proposed Devil's Playground Unit in the Southeast Red Wash Prospect. Drilling is scheduled to begin in early June of 1977.

OPERATOR:

Pacific Transmission Supply Company

LEASE:

U-1207

ELEVATION:

5246 Ungraded Ground

DRILLING CONTRACTOR:

Anderson Drilling Company

FORMATION TOPS AND DATUM

FORMATION		DEPTH	SUB-SEA DATUM
Kelly Bushing Green River H Marker Wasatch Y Marker Mesaverde Total Depth	(Est.)	5258' 1188' 2388' 3603' 4758' 5108'	+4070 +2870 +1655 + 500 + 150 -1242

SAMPLE COLLECTION

10' samples from under surface to TD. Samples will be collected by drilling crew for the wellsite geologist.

One cut of samples will be sent to Amstrat

One cut of samples in the Green River Section (only) will be sent to the Bureau of Mines, Laramie, Wyoming.

LOGGING PROGRAM

Log interval under surface casing to casing point of intermediate at Run #1 approximately 2300'.

-Dual Induction with SP

-Bore hole compensated sonic with gamma ray and hole caliper

-Compensated Formation Density with gamma ray and hole caliper

Log interval under intermediate casing point to total depth. Use same logs Run #2 as Run #1.

MUD LOGGING

Portable mud logging unit operated by wellsite geologist. Mud logging unit should he in operation from below surface casing.

DRILL STEM TESTING

2 DSTs are scheduled, one in the Wasatch formation and one in the Mesaverde. Use floor manifold with 6" positive choke, nipple, jars, safety joint, reverse sub, sample chamber and dual packers. Sample of all fluids recovered shall be collected for analysis.

DST Schedule: Initial open 10 min. Initial shut in 60 min.

> Second open 90 min. Final shut in 180 min.

MUD PROGRAM

Interval Feet	Mud Weight lb/gal.	Viscosity Sec/Qt.	Fluid Loss ML/30 Min.	Mud Type
0-350	8.5	35-50	No Control	Spud
350-2400	8.4-8.7	26-29	No Control	Water/floculent
2400-5000 (top	KMV) 8.7-9.0	26-29	No Control	Salt Water 60-80,000 PPM
5000-TD	9.2-9.5	35-45	12cc/1ess	Salt mud 60.000 PPM

Mud system from under surface to TD to contain approximately 180 PPM nitrates to verify filtrate water.

DRILLING PROGRAM

- 1) Move in percussion air drilling rig and drill 14-3/4" hole for surface casing. Set surface and WOC. Surface to be 10-3/4", 40.5 #/Ft, K55. Air compressors and a booster should be on standby and rigged up to areate the mud system in the event loss ciruclation occurs. ARRANGEMENTS FOR AIR EQUIPMENT SHOULD BE CONFIRMED A MINIMUM OF 30 DAYS IN ADVANCE OF SPUD DATE.
- 2) Move on main drilling rig and drill out front under 10-3/4" casing with 9-7/8" hole to 2400'. Log and prepare hole for intermediate casing.
- 3) Set 2400' of 7-5/8", 26.4 #/Ft., K55 Casing, WOC.
- 4) Drill out from under 7-5/8" casing with 6-3/4" hole to TD. Log and evaluate well.
- 5) In the event that the Mesaverde and/or Wasatch is found productive, a string of 4-1/2", 11.6 1b/Ft., K55 casing will be run and cemented across the potential zones.
- 6) Release rig and develop completion procedure.

NOTE: The cost estimate for this well anticipates drilling the well to 6500' to test the Mesaverde, but recognizes the greatest potential for completion is in the Wasatch formation. The AFE therefore was estimated with a Wasatch completion in mind. Additional money will be required should a Mesaverde completion be attempted which requires MHF treatment.

PERSONAL AND MAILING INFORMATION

WELLSITE GEOLOGIST	ENGINEER
Dee E. Beardsley Pacific Transmission Supply Co.	B.W. Allen P.O. Box 2352
P.O. Box 3093	Casper, Wyoming 82601
Casper, Wyoming 82601	Telephone: Office (307) 234-3571
Telephone: Office (307) 265-1027	Home (307) 237-9023
Home (307) 234-7666	

NOTIFICATION OF SHOWS, DST'S UNUSUAL PROBLEMS

•	•	Home
Dee E. Beardsley	(307) 265-1027	$(307) \overline{234-7666}$
Jack Wroble	(303) 571-1662	(303) 798-6175
Sam Boltz	(303) 573-5858	(303) 355-4881
B.W. Allen	(307) 234-3571	(307) 237-9023

DISTRIBUTION OF INFORMATION

PACIFIC TRANSMISSION SUPPLY COMPANY First of Denver Plaza 633 17th Street, Suite 2140 Denver, CO 80202 Attention Mr. J. L. Wroble

CHORNEY OIL COMPANY 401 Lincoln Tower Building Denver, CO 80203 Attention Mr. Sam Boltz

DIVISION OF OIL, GAS & MINING 1588 West North Temple Salt Lake City, UT 84116 Attention Patrick L. Driscoll Chief Petroleum Engineer PACIFIC TRANSMISSION SUPPLY COMPANY P.O. Box 3093 Casper, WY 82601 Attention Mr. Dee E. Beardsley

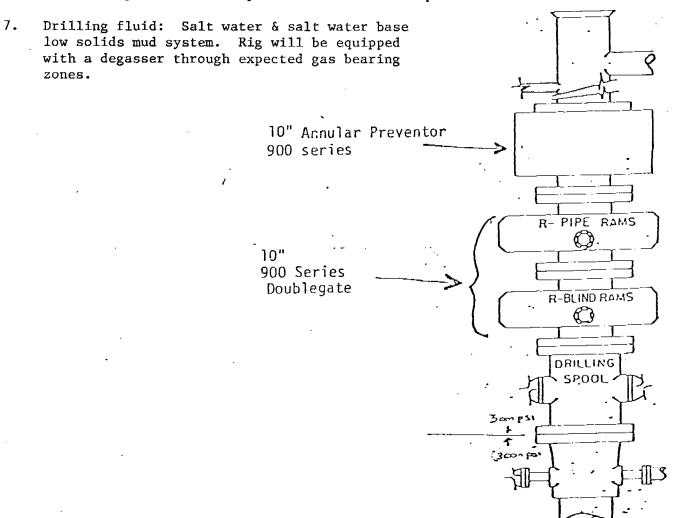
MR. B. W. ALLEN P.O. Box 2352 Casper, WY 82601

U.S. GEOLOGICAL SURVEY
8426 Federal Building
Salt Lake City, UT 84138
Attention Edgar W. Guynn
District Engineer

PTS 44-5 Federal SESE Section 5, T10S, R24E SLM Uintah County, Utah

CASING, BOP AND PRESSURE CONTAINMENT DATA

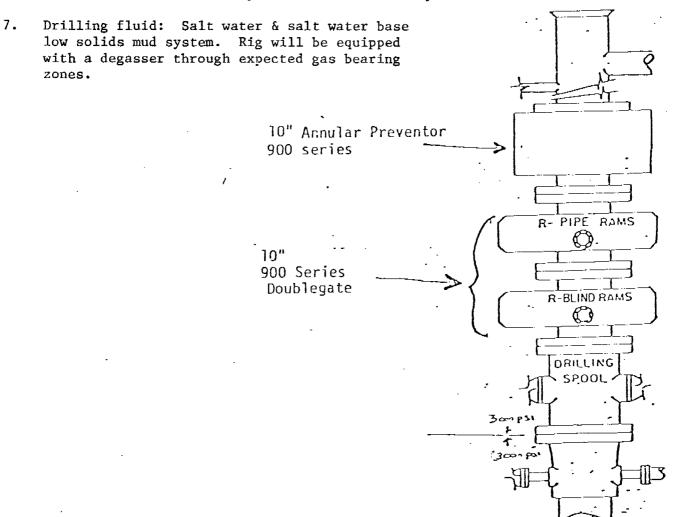
- Surface casing: 10-3/4", 350' K55, 40.5#/Ft., new.
 Casing will be set and cemented to surface. WOC 12 hours.
- Casing heads, flanges and spools: All casing heads flanges and spools to be 900 series or stronger. The christmas tree to be installed, if required, will be at 3000 psi W.P.
- 3. Production casing: 4-1/2" as required J55, 11.6#/Ft., LTC, new. Casing will be set and cemented through productive formations. WOC a minimum of 12 hours.
- 4. Blowout Preventer: The rig to be used on the location will be equipped with a 10" 900 series doublegate BOP and a Hydril, 900 series BOP. See below. Blow Out Preventers shall be mechanically checked at least once per day while drilling.
- 5. Auxiliary equipment to be used: Lower kelly cock, open stabbing floor valve, 2-1/2" choke manifold, 3000 psi W.P. or better.
- 6. Formation pressure anticipated is 2900 to 3000 psi.



PTS 44-5 Federal SESE Section 5, T10S, R24E SLM Uintah County, Utah

CASING, BOP AND PRESSURE CONTAINMENT DATA

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APPROVED BY _

CONDITIONS OF APPROVAL, IF ANY:

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	U-1207					
APPLICATIO	N FOR PERMIT	TO DRILL	DEEPEN, OR PLUC	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
a. TYPE OF WORK				.	-	
DF	RILL 🗷	DEEPEN	☐ PLUG I	BACK 🗌	7. UNIT AGREEMENT N	AME
b. TYPE OF WELL	NT ()					ground
WELL	WELL X OTHER		SINGLE MU ZONE ZON		8. FARM OR LEASE NAM	(E
NAME OF OPERATOR						
PACIFIC TRANS	MISSION SUPPLY (COMPANY			9. WELL NO.	
ADDRESS OF OPERATOR	633 17th Street	:			PTS 44-5 Fed	
	Denver, CO 802	202	ith any State requirements.*)		10. FIELD AND POOL, O	R WILDCAT
At surface			ith any State requirements.*)		Wildcat	
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At proposed prod. zo					Sec. 5, T108	3, R24E 🥒
T10S.	R24E, SLM AND DIRECTION FROM NEAR					
I. DISTANCE IN MILES	AND DIRECTION FROM NEAD	KEST TOWN OR POS	ST OFFICE		12. COUNTY OR PARISH	13. STATE
5. DISTANCE FROM PROF	oomat.				Uintah	Utah
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(Also to nearest dr	lg. unit line, if any)		1,886.07 19. PROPOSED DEPTH		320	
	DRILLING, COMPLETED,		1	20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON TH			6500'	<u>Rot</u>	otary	
· ·	hether DF, RT, GR, etc.)				22. APPROX. DATE WO	RK WILL START*
5246 Uı	ngraded Ground				June 1, 1977	
	P	ROPOSED CASI	NG AND CEMENTING PRO	GRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	FOOT SETTING DEPTH	1	QUANTITY OF CEMEN	
14-3/4"	10-3/4"	40.5	350'	380	Sacks	
9-7/8"	7-5/8"	26.4	2400'	1) Sacks	
6-3/4"	4-1/2"	11.6	As Required		quired to cemen	t producti
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TITLE

APPROVAL DATE

PACIFIC TRANSMISSION SUPPLY COMPANY

13 Point Surface Use Plan

for

Well Location

Pacific Transmission Supply Company 44-5 Federal

Section 5, T10S, R24E, S.L.B.&M.

Uintah County, Utah

1. EXISTING ROADS

See Topographic Map "A".

To reach Pacific Transmission Supply Co. well location, Pacific Transmission Supply Co., 44-5 Federal located in Section 5, T10S, R24E, S.L.B.& M. Uintah County, Utah from Vernal, Utah, proceed east from Vernal along U. S. Highway 40 - 24.0 miles to the junction of this highway and Utah State Highway 45; proceed along Utah State Highway 45-22 miles to Bonanza, Utah at which point Utah State Highway 45 changes from a hard surface to an improved dirt road; proceed south along Utah State Highway 45 - 2.85 miles to the junction of this highway and a dirt road that exits to the west; proceed west along this road 1.25 miles to the point it forks and runs in a northwesterly direction and southwesterly direction; proceed along the southwest fork down the bottom of a canyon 2.95 miles to the point that the planned access road, to be discussed in Item #2, intersects this road.

At the present time there is no major construction along any portion of this road. However, there may be some minor grader work required the last 4.2 miles from the intersection of Utah State 45 to the proposed access road and on down the canyon 1.06 miles to the proposed water supply on the White River in order to facilitate the necessary orderly traffic flow required in the drilling, development, and production of this well.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

There will have to be approximately 0.98 miles of new access road built to reach the proposed well location site in the SE 1/4 SE 1/4, Section 5, T10S, R24E, S.L.B. & M. from the existing road discussed in Item 1.

The grade of this road will vary from flat to 8%, but will not exceed this amount. The road will be constructed from native borrow accumulated during construction.

The small drainage in the bottom of the canyon will be forded. If deemed necessary by the agencies involved, a culvert of adequate size to handle the compacted run-off will be installed.

The terrain that is traversed by this road is up the west side of the canyon which is quite open and is vegetated with sagebrush, rabbit brush, and grasses.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are no other wells within a one-mile radius of the proposed well site. (See location plat for placement of Pacific Transmission Supply Company location within the section.)

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES AND PRODUCTION GATHERING AND SERVICE LINES

All petroleum production facilities are to be contained within the proposed location site. There are no other Pacific Transmission Supply Co. flow, gathering, injection, or disposal lines within a one-mile radius of this location.

In the event production is established, plans for a gas flow line from this location to existing gathering lines or a main production line shall be submitted to the appropriate agencies for approval.

5. LOCATION AND TYPE OF WATER SUPPLY

Water used to drill this well is to be hauled from White River approximately 2.04 road miles to the south of the location site in the SE 1/4 NE 1/4 Section 17, T10S, R24E, S.L.B. & M.

If this water source is not used, then any other necessary arrangements will be made.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time.

7. METHODS FOR HANDLING WASTE DISPOSAL

All garbage and trash that can be burned, shall be burned. All unburnable garbage and trash accumulated during development of this well shall be contained in the trash pit shown on the attached Location Layout Sheet.

When drilling activities have been completed, the rig moved off the location, and production facilities set up, all garbage and trash on the location site shall be cleaned up, deposited in the trash pit, and covered with a minimum 4' of cover.

All production waste such as cuttings, salts, chemicals, overflows of condensate, water, and drilling fluids shall be contained in the west cell of the reserve pit and upon completion of drilling activities, buried with a minimum of four feet of cover.

A portable chemical toilet will be supplied for human waste. (See end paragraph in Item No. 10.)

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet. The Bureau of Land Management District Manager or other appropriate agencies shall be notified before any construction begins on the proposed location site. When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 4' of cover. The reserve pit will be completely fenced and allowed to dry before covering. Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned items No. 7 and 10.

11. OTHER INFORMATION

Topography of the General Area (See Topo. Map "A").

The topography of the general area slopes from the rim of the Blue Mountain to the north to the White River to the south, being a part of what is known as the Eastern Portion of the Uintah Basin. The area is interlaced with numerous canyons and ridges which are extremely steep, with numerous ledges formed in sandstones, conglomerates, and shale deposits.

Soils in this semi-arid area are of the Uinta Formation (Eocene) and a member of the Quaternary Era which is a Ogs and consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poorly graded gravels and shale outcrops.

Outcrops of sandstone ledges, conglomerate deposits, and shale are common in this area.

The top soils in the area range from sandy clay (SM-ML) type soil to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

11. OTHER INFORMATION (Continued)

White River is the major drainage that this location affects and is a perennial stream.

Due to the low percipitation average, climate conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in and in the lower elevations, it consists of juniper and pinion forests as the primary flora with areas of shadescale, scrub oak, sagebrush, rabbit brush, bitter brush, some grasses, and cacti.

The fauna of the area consists predominantely of the mule deer, Pronghorn Antelopes, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The Topography of the Immediate Area (Topo. Map "B")

Pacific Transmission Supply Co. 44-5 Federal, lies approximately 300' east of a small drainage that forms a non-perennial drainage and is a tributary to the White River.

The majority of all the drainages in the area run in a southwesterly direction extending down from the summit that separates the White River drainage to the south and the Kennedy Wash drainage to the north.

The terrain rises sharpley from the White River to the south onto the bench area. The location is located on the north through the location and then rises sharpley to the summit of the ridge that separates the White River drainage and the Kennedy Wash drainage to the north.

The terrain in the immediate vicinity of the location slopes to the southeast and slopes through the location site at approximately a 6% grade.

The geologic structure of the location is a member of the Uintah Formation and consists of a light brownish-gray sandy clay (SP-CL) with some mudstone deposits.

The vegetation in the immediate area surrounding the location site is predominantely sagebrush and grasses.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topograhic Map "B".)

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Dee E. Beardsley 212 Goodstein Building 330 South Center Street P. O. Box 3093 Casper, Wyoming 82602

Tel: 307/265-1027

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Pacific Transmission Supply Co. and its contractors and sub-contractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

April 29, 1977 Date

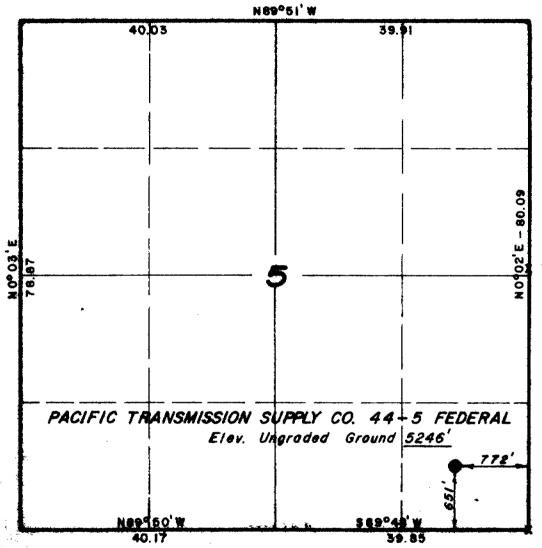
DEÉ E. BEARDSLEY

District Manager Title

PACIFIC TRANSMISSION SUPPLY CO. PACIFIC TRANSMISSION SUPPL CO. 44-5 FED. LOCATION LAYOUT SHEET CROSS SECTIONS 5TA. 0+00 125 50' EXISTING GROWND 1:1 Slope Loc. GEIDE / Clil Slope SCALE 1" = 50 8 C-72 (1) C-102 (2) C-75 FUEL TOILET TRAILE STORAGE TAUK AREA FOR PRODUCTION FACILITIES 5TA. 1+75 PARKING 50' 125 DOG HOUSE DIDE ALCESS TE TOTAL Мио Рима ROAD MATER RACKS /HOPPERS 7F-03 RIG CATMANA LOC. GRADI C-225 FUEL CLIGHT FLANT DATA MUD TAUKS PLIMP --/ - PUMP 6 F-01 5 RESERVE F-29 8' DEDTH - ATS LINLINED -TO BE FENCED -5TA. 3+00 MASSIVE FRAC. AREA 125 THIS SIDE TO BE USED FOR WELL CVERFICUS & DELLING FLUIDS FRESH WATER SIDE EXISTING GROUND OVERHEAD FLAGGING TO BE INSTALLED OVERFLOW DIKE TO BE INSTALLED WITH Screeus 2 F-92 9 11 F-72 25' X 25' BURN PITS) TO BE FENCED APPROX. YARDAGES SOILS LITHOLOGY FILL ___ 3,720 Cu.Yds. Cut ____ 7,850 Cu.Yds. LIGHT TAN SAUD CLAY 5COLES (SC - ML) 1" = 50'

PROJECT

T10S, R24E, S. L.B. & M.



PACIFIC TRANSMISSION SUPPLY CO

Well location, PACIFIC TRANSMISSION SUPPLY CO. 44-5 FEDERAL, located as shown in the SEI/4 SEI/4 Section 5, TIOS, R24E, S.L.B. & M., Uintah County, Utah.

W. I/4 Cor.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENH SURVEYOR REGISTRATION NE 2454 ,

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - PIRST SOUTH
VERNAL, UTAH - 84078

SCALE	DATE	
l" * 1000'	22 April 1977	
PARTY	REFERENCES	
L.D.T. 8, J. L.	GLO Plats	
WEATHER	FILE	
Warm	Pecific Trensmission Sugaly C	

X = Corners Found & Used (Brass Caps)

** FILE NOTATION	NS **
Date: May 4-	
Operator: Majia Saux	mission Duppy Co
Well No: 15 44-5 Fed.	
Location: Sec. 5 T. 105 R. 24E C	ounty: Wentak
	ntered on N.1.D. / /// ompletion Sheet /
CHECKED BY:	
Administrative Assistant	
Remarks: 10 Other will.	The Sec. 5
Petroleum Engineer PUD	
Remarks:	•
Director	
Remarks:	
INCLUDE WITHIN APPROVAL LETTER:	
Bond Required	Survey Plat Required / /
Order No	Swrface Casing Change //
Rule C-3(c), Topographic exception/com within a 660' radius of p	npany owns or controls acreage proposed site / /
0.K. Rule C-3 / O.K.	InUnit //
Other: Unit agreement	
lotton	Ula ittam / Amara and

May 4, 1977

Pacific Transmission Supply Co. 633 17th Street Denver, Colorado 80202

> Re: Well No. PTS 44-5 Federal Sec. 5, T. 10 S, R. 24 E, Uintah County, Utah

Gentlamen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure. However, said approval shall be contingent upon forwarding a copy of the Devil's Playground Unit Agreement (unexecuted would suffice) to this Division as soon as possible.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer HOME: 582-7247 OFFICE: 533-5771

Enclosed please find Form OGC-8X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this office be notified within 24 hours after drilling operations have commenced, and that the Division be notified of the drilling contractor and rig number.

The API number assigned to this well is 43-047-30280.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT

cc: U.S. Geological Survey

Form	9-331
(May	1963

(May 1968)	DEPARTMENT OF THE	INTERIOR verse side	1	Budget Eureau No. 42-R1424. SE DESIGNATION AND SERIAL NO.
SUI	NDRY NOTICES AND RE	PORTS ON WELLS pen or plug back to a different " for such proposals.)	6. IF	INDIAN, ALLOCTIER OR TRIBE NAME
OIL GAS			7. UNI	T ACREMENT NAME
2. NAME OF OPERATOR	Lair OTHER		Bey	113 Mayground Unit
PACIFIC TRA	MSMISSION SUPPLY COMPAN	Y.		
3. ADDRESS OF OPERATE	et v			LL NO.
633 17th St.	Report location clearly and in accordance ow.)	nce with any State requiremen		HLD AND POOL, OR WILDCAT
See also space 17 be At surface	ilow.)	- "		Wildcat
772*	FEL and 651' FSL of Se	c. 5, TIOS, R24E	SLM 11. 81	SC., T., B., M., OR BLK. AND SURVEY OR AREA
	r i 1945. 1966 - Standard Grander (1967) 1968 - Angliander (1967)			. 5. TIOS, R24E
14. PERMIT NO.	16. ELEVATIONS (Sh	ow whether DF, RT, GR, etc.)	12, 00	OUNTY OR PARISH 13. STATE
	5246 ling	raded Ground	Uin	tah Utah
TEST WATER SHUTF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	MULTIPLE COMPLETE ABANDON* CHANGE PLANS	WATER S FRACTURE SHOOTING (Other) (No	SUBSEQUENT RES	PORT OF: REPAIRING WILL ALTERING CARING ABANDONMENT* Liple **Midletion on Well Proff and Log form.)
	OR COMPLETED OPERATIONS (Clearly stat If well is directionally drilled, give su)*			
Operator Federal	requests permission to The new casing design	change the casing is as follows:	design for the	proposed PTS 44-5
Size of I	iola Size of Casing	Wt. per Foot	Setting Depth	Quantity of Coment
17-1/2	13-3/8"	54.5#	350'	Coment to surface Approx. 450 sacks
11*	8-5/8*	24#	2400'	150 sacks

n de la companya de La companya de la co			Approx. 450 sacks
11" 8-5/8"	24#	2400"	150 sacks
7-7/8- 4-1/2-	11.5#	As Required	As Required
This is a confirming request as ver	bal permissie	a was given to PT	S by the USGS.
Salt Laby City, Utah by to ephone of ROVED BY THE DIVISION OF GAS AND MINING	# <i>0/21///</i> .		
DATE: 24 1777	*4 · · ·	TO THE	
BY: Ph. Among		G BELLUIT	
8. I hereby certify that the foregoing is true and correct			
(This space for Federal or State office size)	ENGLIE		5/82/71
APPROVED BY	Ď. <u></u>	COUTTAIN	ATE 11 11 11 11
CONDITIONS OF APPROVAL, IF ANY			·얼마리즘 유기 사용하는 그리프 경기

2. 1) EXHAUST EMISSIO FROM THE DRILLING RIG POWER UN AND SUPPORT TRAFFIC
ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.
2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE
DISTURBANCE AND SUPPORT TRAFFIC USE.
3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND
SURFACE DISTURBANCE.
4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.
E) M
5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.
6) Extensive cut for new access route
Would increase potential errosion
- Visual impacto
4. Alternatives to the Proposed Action
1) NOT APPROVING THE PROPOSED PERMIT THE OIL AND GAS LEASE GRANTS THE
LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL
OIL AND GAS DEPOSITS.
2) Deny the proposed permit and suggest an Alternate Location to MINIMIZE
ENVIRONMENTAL IMPACTS. No yearby locations Could be found the
would Just ty this detron However
3) Moved Hocess Road FROM PROPOSED ROUTE
To follow & DRY WASH INTO SITE & PLOUER
TOP SOIL STOCKPILE TO NORTH. CSEE
HTTACHED DRAWINGS)
· 2

ETTECLS On Environment by Proposed Action (pocential impact)

1) MINOR AIR POLLUTION RUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT
TRAFFIC ENGINES.
2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.
3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.
4) TEMPORARY DISTURBANCE OF LIVESTOCK.
5) MINOR AND SHORT-TERM VISUAL IMPACTS.
6)

6. Determination

(This requested action (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected

Inspector .

U.S. Geological Survey, Conservation Division

Salt Lake City District Salt Lake City, Utah

U.S. GEOL CAL SURVEY, CONSERVATION VISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH
TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

WellLocationLease No.Pacific Transmission
Supply Co. PTS 44-5 Fed772' FEL, 651' FSL, Sec. 5, T10S, R24E,
SLM, Uintah Co., Utah. Gr. E1. 5246'U-1207

- 1. Stratigraphy and Potential Well will spud in the Uinta Formation and test the Oil and Gas Horizons. underlying stratigraphy for gas potential to a proposed T.D. of 6500'. Pacific Lighting Expl. Co. No. 3 (Gr. El. 5635'), Sec. 27, T9S, R24E, reported the following tops: Green River 1240'; Wasatch 3750'; Mesaverde 5475'; Sego 7015'; Buck Tongue 7150'; T.D. 7488'. IP 831 MCFGPD from the Wasatch (4919'-4922'). PB 4980'. See, also, well prognosis on APD.
- 2. Fresh Water Sands. No wells in the vicinity of this test. Wells in T9S, R24E, indicate fresh/usable water to depths of 1700'.
- 3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) coal and solid and semisolid bitumens (gilsonite) rincipal oil shale horizons are the Parachute Creek and Garden Gulch Members of the Green River Formation. Parachute Creek Member contains the Mahogany zone which may contain up to 35bbl/ton. Coal is found in the Mesaverde Fm. and is presently subeconomic due to excessive depth. Gilsonite veins may be encountered in this twp.
- 4. Possible Lost Circulation Zones. Unknown
- 5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs.

 Protect any fresh water aquifers penetrated.
- Possible Abnormal Pressure Zones Unknown and Temperature Gradients.
- 7. Competency of Beds at Proposed Probably adequate Casing Setting Points.
- 8. Additional Logs or Samples Needed. Sufficient logs to identify oil shale in the Green River Fm., and coal in the Mesaverde Fm.(IES, gamma-ray, sonic, density).
- 9. References and Remarks Within one mile of the Southman Canyon KGS.

State Of Dear. Signed: 1 homes R. Arrisay

ATTACHMENT 2-A	U M	MAF	OF 2	E l	V V 1	ко	N V:	ΕN	AI	L	M	PA(C I	ΕV	VΓΩ	ATIO	ON A	494	
PRCTIC TERNS. Sup. Co WELL # 44-5 SEC. 5-TIOS-R24E					:				Dri	Hi	ng			T	1180				
Will # 44-5	Co	nstr	uction	P	0[]	uti	on	_	Pro	du	cti	on		Оре	roti	ons	Accid	onts	Others
SEC. 5- T105-R24E			_				÷												,
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Forestry N/R																			
Grazing					Z			Z			Z			_					
Wilderness K/R																			
Agriculture K/A												_							
Residential-Commercial											_	_	_		·				
Mineral Extraction N/A Recreation Scenic Views	-				_					-	\rightarrow	-		_					
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Unique Physical Features					_					-	_	-	-						
D Birds					\nearrow					+	\nearrow	_	+						
Land Animals	\rightarrow	7									7			\nearrow					
Fish N/A	\leftarrow	_/_					_					-	1						
	1	1																	
Endangered Species W/R Trees, Grass, Etc.																			
Surface Water N/A											_								
Underground Water?	- !									_				_					·
S Air Quality				4	_	 		4		-	_	_		\leq					
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June 28, 1977

MEMO TO FILE

Re: Pacific Transmission Supply Co.

Federal 44-5

Sec. 5, T. 10 S, R. 24 E,

Uintah County, Utah

Pacific Transmission Supply Company provided notice that the above referred to well was spudded on June 26, 1977 at 1:30 p.m.. The Drilling Contractor is Anderson Drilling Company, rig number 10.

SCHEREE WILCOX ADMINISTRATIVE ASSISTANT Form 9-331 (May 1963)

ED STATES DEPARTMENT OF THE INTERIOR (Other Instruction verse side)

CATE.

Form approved,
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

6/27/77

DATE _

DATE _

	EOLOGICAL SURVEY	,	U-1207	
	ICES AND REPORTS (als to drill or to deepen or plug b TION FOR PERMIT—" for such p		6. IF INDIAN, ALLOT	TEE OR TRIBE NAME
OIL GAS WELL X OTHER		mue (co)	W)	ayground
2. NAME OF OPERATOR PACIFIC TRANSMISSION S	UPPLY COMPANY	110	S. SASSES N	AMB
3. ADDRESS OF OPERATOR 633 17th Street, Suite	2140 Denver Color	ado 80202	08. NAY NO.	Podovol
4. LOCATION OF WELL (Report location of See also space 17 below.) At surface	•	\^, U-4/)	Wildeat	
772' FEL and 651' FSL	of Section 5	· /	SURVEY OR AR	
T10S-R24E, Section 5	. 1		Sec. 5, Tl0)S-R24E
14. PERMIT NO.	15. BLEVATIONS (Show whether DF	, RT, GR, etc.)	12. COUNTY OR PARIS	SH 13. STATE
API No. 43-047-30280	5246 Ungraded Gr	ound	Uintah	Utah
16. Check Ap	propriate Box To Indicate N	lature of Notice, Report, or C	Other Data	
NOTICE OF INTEN	rion to:	SUBSEQ	UENT REPORT OF:	
TEST WATER SHUT-OFF	ULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING	WELL
	IULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING	CASING
 	BANDON*	SHOOTING OR ACIDIZING	ABANDONM	ENT*
REPAIR WELL C	HANGE PLANS	(Other) (Nore: Report results	of multiple completion	n on Well
17. DESCRIBE PROPOSED OR COMPLETED OPER proposed work. If well is direction	RATIONS (Clearly state all pertinent		letion Report and Log i including estimated d	
nent to this work.) *	nany drined, give supsurface locat	ions and measured and true vertic	at debtus for all marks	ers and zones perti-
	PLEASE HOLD	CONFIDENTIAL	÷ ,	
			į Širi	·
Spudded 1:30 p.m. 6/2	26/77. 20" Conductor	r casing set @ 153' k	С.В.	
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TITLE EXPLORATION MANAGER

18. I hereby certify that the foregoing is true and correct
Original signed by

(This space for Federal or State office use)

CONDITIONS OF APPROVAL, IF ANY:

J. L. WROBLE

SIGNED

APPROVED BY

ī.

2.

3.

16.

Form approved. Budget Bureau No. 42-R1424.

U-1207"

5. LEASE DESIGNATION AND SERIAL NO. 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY	NOTICES	AND	REPORTS	ON	WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT-" for such proposals.)

OIL GA	ELL X OTHE	.	Jan
NAME OF OPERAT	YOR.		
PACIFIC T	RANSMISSIO	N SUPPLY COMPANY	OFWI
ADDRESS OF OPE	BATOR		

633 17th Street, Suite 2140, Denver,

LOCATION OF WELL (Report location clearly and in accordance See also space 17 below.)
At surface

772' FEL and 651' FSL of Sec. 5, T10S-R24E, SIM

14. PERMIT NO. API No. 43-047-30280 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5246' Ungraded Ground

9. WELL NO. PTS #44-5 Federal

7. UNIT AGREEMENT NAME ... Devil's Playground 8. FARM OR LEASE NAME

10. FIELD AND POOL, OR WILDCAT 54 부튀죠.

Wildcat. 11. SEC., T., E., M., OR BLH. AND SURVEY OR AREA

Section 5, TlOS-R24E

12. COUNTY OR PARISH | 18. STATE Uintah -Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBS	EQUENT R	FPORT OF:		٠.
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING	WELL	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING	CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONM	ENT*	
REPAIR WELL		CHANGE PLANS		(Other)		*		
(Other)			x	(Note: Report resu	its of mu	itiple completion	on Well	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PLEASE HOLD CONFIDENTIAL

6/27/77 - Spudded @ 1:30 p.m. 6/26/77. Set 20' conductor casing @ 53'

6/28/77 - TD 222', drilling 17's" surface hole.

6/29/77 - TD 365', cementing 13-3/8" surface casing. Ran 5 jts. 13-3/8", 54.5#, J-55 surface claing, Baker float shoe & baffle plate, landed @ 365'; cemented w/300 sx Class "G" cement with 1/4# per sack Celloflake & 2% CaCl.

6/30/77 - TD 365', completed cementing 13-3/8" csg w/300 sx Class "G" cement w/ 2% CaCl & 3% salt. Job completed @ 10:15 A.M. 6/29. WOC 8 hrs. csg & installed csg flange. Nippled up BOP equip.

TD 660', drlg. Drld out below surface casing @ 10:30 p.m. 6/30. 7/1/77 -

> APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE:

18. I hereby certify that the foregoing is true and correct

TITLE EXPLORATION MANAGER

*7/*1/77 DATE

(This space for Federal or State office use)

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

DATE

U FD STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TR (Other instruction on reverse side)

Ferm approved,
Budget Bureau No. 42-R1424,

DEPARTMENT OF THE INTERI	OR verse side) 5. 1	LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY		U-1207
SUNDRY NOTICES AND REPORTS C (Do not use this form for proposals to drill or to deepen or plug by Use "APPLICATION FOR PERMIT—" for such pr	ON WELLS	IF INDIAN, ALLOTTEE OR TRIBE NAME
I. OIL GAS X OTHER	4 1	Oevil's Playground
2. NAME OF OPERATOR PACIFIC TRANSMISSION SUPPLY COMPANY	8. F	FARM OR LEASE NAME
3. ADDRESS OF OPERATOR	9. v	WELL NO.
633 17th Street, Suite 2140, Denver, CO	P P	TS #44-5 Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any Sec also space 17 below.) At surface		rield and root, or wildcar
772' FEL and 651' FSL of Sec. 5, T10S-R24E	, SLM 11.	SEC., T., R., M., OR BLK. AND SURVEY OR AREA
• •	s	Section 5, TlOS-R24E
14. PERMIT NO. 15. ELEVATIONS (Show whether DF,	RT, GR, ctc.) 12.	COUNTY OF PARISH 13, STATE
API No. 43-047-30280 5246' Ungraded Gro	ound U	intah Utah
16. Check Appropriate Box To Indicate No.	- (N-4: P Oth	Dui-
NOTICE OF INTENTION TO:	SUBSEQUENT R	EPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL CHANGE PLANS	(Other)	
(Other)	(Note: Report results of mu Completion or Recompletion I	iltiple completion on Well Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent proposed work. If well is directionally drilled, give subsurface location nent to this work.)*	details, and give pertinent dates, includ- ons and measured and true vertical dept	iing estimated date of starting any hs for all markers and zones perti-
		三氢氧化剂 经公司分配
PLEASE HOLD (CONFIDENTIAL	· ·
		그 왕류회에는 함께 된 것으로 먹
7/2/77 - TD 995', drlg.		
7/3/77 - TD 1390', drlg.		

1/2/11	_	ענ	227 ,	arig.	
7/3/77					
7/4/77	-	$\mathbf{T}\mathbf{D}$	2005',	drlg.	
7/5/77	-	$\mathbf{T}\mathbf{D}$	2385',	drlg.	
7/6/77	_	$\mathbf{T}\mathbf{D}$	2400',	WO rig	repairs.
7/7/77	-	11	11	n n	11
7/8/77	-	\mathtt{TD}	2945',	drlg.	

18. I hereby certify that the foregoing is true and correct Original signed by SIGNED J. L. WROBLE	TITLE EXPLORATION MANAGER	DATE 7/8/77
(This space for Federal or State office use)	10. VII. VII. VII. VII. VII. VII. VII. VI	The second secon
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE

DEPARTMENT OF THE INTERIOR

SUBMIT IN TR (Other instructiverse side) Form approved,
Budget Burcau No. 42-R1424.

DEL VICTOR OF THE THIEFTON ASSESSMEN	O. DEAGE PERIORATION AND SERIAL NO.
GEOLOGICAL SURVEY	U-1207
	6. IF INDIAN, ALLOTTEE OR THISE NAME
SUNDRY NOTICES AND REPORTS ON WELLS	
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	
1.	7. UNIT AGREEMENT NAME
OIT. FIND CAR FINNS	
WELL WELL X OTHER	Devil's Playground
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
PACIFIC TRANSMISSION SUPPLY COMPANY	<u>- 프립웨어 등 관련적회</u>
3. ADDRESS OF OPERATOR	9. WELL NO.
633 17th Street, Suite 2140, Denver, 50 10202	PTS #44-5 Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.	10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface	Wildcat
772' FEL and 651' FSL of Sec. 5, T10S-R24E, SLM	11. SEC., T., E., M., OR BLK. AND
772 FEB and OSI FSB OI Sec. 5, 1105-R24E, SEM	SURVEY OR AREA
	Section 5, TlOS-R24E
The house of the state of the s	The many substitution of the second of the s
14. PERMIT NO. 15. ELEVATIONS (Show whether Dr., RT., GR., etc.)	12. COUNTY OR PARISH 13. STATE
API No. 43-047-30280 5246' Ungraded Ground	Uintah Utah
16. Check Appropriate Box To Indicate Nature of Notice, Report, or C	Shar Data
	iner Daid
NOTICE OF INTENTION TO:	ENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE ABANDOM* SHOOTING OR ACIDIZING	ABANDONMENT*
	of multiple completion on Well
	of multiple completion on Well etion Report and Log form.)
 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical 	including estimated date of starting any I depths for all markers and zones perti
nent to this work.) *	· [- [- [- [- [- [- [- [- [- [
DI PACE UOID COMETDEMMIAI	
PLEASE HOLD CONFIDENTIAL	
7/9/77 - TD 3151', WOC. Ran 75 jts. 8-5/8", 24#, K-55, inte	rmediate csq with
Baker guide shoe, float collar & 5 centralizers; la	
cemented w/150 sx RFC cement w/1/4# per sack cellof	
"G" with 1/4# per sack celloflake. Displaced slurr	y w/149.5 dols fresn_
water. Plug down, good circulation throughout.	
7/10/77 - TD 3345', drilling.	
7/11/77 - TD 3808', circ & reaming to btm.	그는 공사 기원 기원 집중하였다.
7/12/77 - TD 3910', drlg.	
7/13/77 - TD 4290', drlg.	
7/14/77 - TD 4630', drlg.	១០១ ខ្សុំខែទី១១១ គួរ ទីគ្រូជីន
7/15/77 - TD 4645', working stuck pipe.	
Pro	
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1977	法人第四联集员 医乳焰二氢亚二二
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UNITED STATES DEPARTMENT OF THE INTERIOR (Other instruction verse side)

Form approved. Endget Bureau No. 42-R1424.

		Rudget	mrea	IU N	0. 42-1	1424
5.	LEASE	DESIGN	ATION	AND	SERIAL	NO.

GEOLOGICAL SURVEY		บ-1207	
SUNDRY NOTICES AND REPORTS (Do not use this form for proposals to drill or to deepen or plug to Use "APPLICATION FOR PERMIT—" for such pr		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1.	roposais,)	7. UNIT AGREEMENT NA	ME C
OIL GAS WELL X OTHER		Devil's Play	
2. NAME OF OPERATOR		8. FARM OR LEASE NAM	
PACIFIC TRANSMISSION SUPPLY COMPANY			
8. ADDRESS OF OPERATOR		9. WELL NO.	:
633 17th Street, Suite 2140, Denver, CO 8		PTS #44-5 Fe	
 LOCATION OF WELL (Report location clearly and in accordance with any See also space 17 below.) 	State requirements.*	10. FIELD AND POOL, OR	WILDCAT
At surface		Wildcat :- 11. szc., r., r., M., OR B	LAT. AND
772' FEL and 651' FSL of Sec. 5, T10S-R24E	i, SLM	SURVET OR AREA	
		Section 5, T	10S-R24E
14. PLEMIT NO. 15. ELEVATIONS (Show whether DF.	, RT, GR, etc.)	12. COUNTY OR PARISH	13. STATE
API No. 43-047-30280 5246' Ungraded Gr	round	Uintah	Utah
16. Check Appropriate Box To Indicate N	lature of Notice Report or O	ther Data	
NOTICE OF INTENTION TO:	• • •	ENT REPORT OF:	
	l –	1	
TEST WATER SHUT-OFF POLL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W	
FRACTURE TREAT MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDON*	FRACTURE TREATMENT SHOOTING OR ACIDIZING	ALTERING CA - ABANDONMEN	
REPAIR WELL CHANGE PLANS	(Other)		-
(Other) Weekly Report	(NOTE: Report results	of multiple completion of tion Report and Log for	n Well
 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent proposed work. If well is directionally drilled, give subsurface location nent to this work.)* 			
DI FACE HOLD	CONTEXTORMENT		
PLEASE HOLD	CONFIDENTIAL		
n to a ten and a season and the season and the			•
7/16/77 - TD 4645', working stuck pipe. 7/17/77 - TD 4645', circulating & condi-	tioning mud	- *	
7/18/77 - TD 4645', circulating & condi			
7/19/77 - TD 4645', making short trip t		n.	<u> </u>
7/20/77 - TD 4645', circulating & condi			-
7/21/77 - TD 4645, jarring on fish.			i a i
7/22/77 - TD 4645', tripping.	PECETUR		. · . · ·
	JUL 261	977	*
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18. I hereby certify that the foregoing is true and correct			
SIGNED SUNGLE TITLE EX	PLORATION MANAGER	DATE 7/22	2/77
		DAIN	
(This space for Federal or State office use)			

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

Form	approved		
Budge	t Bureau	No.	42-R356.5

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LAND OFFICE
LEASE NUMBER U-1207
UNIT Devil's Playground

LESSEE'S MONTHLY REPORT OF OPERATIONS

State							Fie			**************************************
								-	_	trilling and producing
			-				•			NSMISSION SUPPLY CO.
							Sig			
										ON MANAGER
	1		,	1			1			REMARKS
Sec. and % of %	Twr.	RANGE	WELL No.	DAYS PRODUCED	Barrels of Oil	GRAVITY	CU. Fr. of GAS (In thousands)	Gallons of Gasoline Recovered	BARRELS OF WATER (If none, so state)	(If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
anan		1		water.	- Company					-56°
SESE Sec. 5	т10:	, R24	#444-	5	N/A	N/A	N/A	N/A	N/A	Spudded 6/26/77. Ran & cemented 5 jts 13-3/8", 54.5#, J-55 surface csg., landed @ 365'. Cemented w/ 300 sx Class "G".
										7/31/77 - Drlg @ 630
				*	* William s			61 (8)	RECEIVE AUG 4	817 9117 9117

Note,—There were _____ m cu. ft. of gas sold;

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329 (January 1950)

DEPARTMENT OF THE INTERIOR							74 2
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DEVILLENCE DEVILLENCE DESIGN SUPPLY COMPANY PRECIFIC TRANSMISSION SUPPLY COMPANY ***********************************		The second secon		ON KEPOKI A	TIND EOG		5. S. S. S. S. S. S. S. S. S. S. S. S. S.
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PAGEFIC TRANSMISSION SUPPLY COMPANY DOSARD BY CONTRACTOR OF VALUE AND STATE OF THE WAY		1,3	PLUG TO DIFF.	, I	, in the second second		
PACIFIC TRANSMISSION SUPPLY COMPANY 633 17th Street, Denyer, CD 80202 LOCATION OF WILL (Report Rootless desay) and in accordance with any State (Stateward 10, Centeral Property Rootless desay) and in accordance with any State (Stateward 10, Centeral Property Rootless desay) and in accordance with any State (Stateward 10, Centeral Property Rootless desay) and in accordance with any State (Stateward 10, Centeral Property Rootless desay) and in accordance with any State (Stateward 10, Centeral Property Rootless desay) and in accordance with any State (Stateward 10, Centeral Property Rootless desay) and in accordance with any State (Stateward 10, Centeral Property Rootless desay) and the state of the			BACK L.J. REST	R. L. Other			un.
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At total depth Sec. 5 1165 R241 Sec.	At surface	//C FEL AND	DOI WHOL OT O	ection 5. or			W. S. C. C. C. C. C. C. C. C. C. C. C. C. C.
THE PRINTY BO. STATE PRINTY B	At top prod. inte	rval reported below	1 5 1		on the state of the state of	Sec. 5.8T1	OS R24E
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DATE PRODUCTION AUG. 1, 1977 18. REPARTMENT (DATE ON THE CONTENT CONT					ATC SELED	12. COUNTY OR PARISH	13. STATE
25, 1977 Aug. 1, 1977 S246 Ungraded Ground S500 1 St. Flues and No. No. 20 a gro 22. IF MULTIPLE CONFL. 28. INTERNAL B. ROTART FOOLS (S500) 1 MON MARY (MON							
PREDUCTION INTERVAL(B). OF THIS COMPLETION. TOPY BOTTOM, NAME (MD AND TYD)* SECURITY AND A TYD PREDUCTION INTERVAL(B). OF THIS COMPLETION. TOPY BOTTOM, NAME (MD AND TYD)* SECURITY AND A TYD PREDUCTION INTERVAL(B). OF THIS COMPLETION. TOPY BOTTOM, NAME (MD AND TYD)* SECURITY AND A TYD ASSOCIATED AND OFFIRE COMPLETION. TOPY BOTTOM, NAME (MD AND TYD)* CASING RECORD (Report oil strings set fis spell) CASING RECORD (Report oil strings set fis spell) CASING RECORD (Report oil strings set fis spell) CASING RECORD (Report oil strings set fis spell) CASING RECORD (Report oil strings set fis spell) CASING RECORD (Report oil strings set fis spell) CASING RECORD (Report oil strings set fis spell) CASING RECORD (Report oil strings set fis spell) CASING RECORD (Report oil strings set fis spell) ANOUNT PULLED ANOUNT PULLED ANOUNT PULLED ANOUNT PULLED ANOUNT PULLED ANOUNT PULLED ANOUNT PULLED ANOUNT PULLED ANOUNT PULLED ANOUNT PULLED ANOUNT SET SPECIAL AND SPELL (MD) ANOUNT SET SPECIAL AND SPELL (MD) ANOUNT SET SPECIAL AND SPELL (MD) ANOUNT SET SPECIAL AND SPELL (MD) ANOUNT SET SPECIAL AND SPELL (MD) ANOUNT SET SPECIAL AND SPELL (MD) ANOUNT SET SPECIAL AND SPECIAL			D 17. BATE COMPL. (7.6		ib, Ki, GB, Mic.,	ELEV. CASINGDAD
### PRODUCTION INTERVAL(B), OF THIS COMPLEXION—TON, SOUTOM, NAME (MD AND TVD)* #### PRODUCTION OF THIS COMPLEXION—TON, SOUTOM, NAME (MD AND TVD)* ###################################	-	- 120	# 7.0 MD A 5VD 22.		23. INTERVAL	S ROTARY TOOLS	CABLE TOOLS
PRODUCTION INTERVAL(B), OF THIS COMPLETION—TOR BOTTOM, NAME (MD AND TVB)* 4864-70 Property Lacetic And Other Logs at No.			7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7		DRILLED 1	BY Line Stellar	None
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DUAL Laterolog, C.F. Bensity, B.C. Sonic CASING RECORD (Report all strings set in spoil) CASING RECORD (Report all strings set in spoil) 13 3/8" 54.5 365 17 1/4" 400 sacks Class 6 None 8 5/8" 24 2404 11" 390 sacks LINER RECORD LINER RECORD LINER RECORD So. TUBING BECORD ANGEL TOP (Mb) BOTTOM (Mp) SACKS CEMENT* SCREEN (Mn) SIZE DEFTH SET (MD) PACEER SET (MD) NO L INER RUN NO L INER RUN NO L INER RUN REPORT (INER RUN 2 3/8" 4810 4810 ANGEL TOP (Mb) BOTTOM (Mp) SACKS CEMENT* SCREEN (Mn) SIZE DEFTH SET (MG) PACEER SET (MD) ANGEL TOP (Mb) BOTTOM (Mp) SACKS CEMENT* SCREEN (Mn) SIZE DEFTH SET (MG) PACEER SET (MD) ANGEL TOP (Mb) BOTTOM (Mp) SACKS CEMENT* SCREEN (MG) ANGEL CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) ANGELT CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) ANGELT CEMENT SQUEEZE, ETC. ANGEL TO COME (MG) GAL 15,000 100 mash saind 7 1/2" mud acid 21,2504 20/40 sand 17 1/2" mud acid 21,2504 20/40 sand 10 10 mash saind 7 1/2" mud acid 21,2504 20/40 sand 10 10 mash saind 17 1/2" mud acid 21,2504 20/40 sand 10 10 mash saind 17 1/2" mud acid 21,2504 20/40 sand 10 10 mash saind 17 1/2" mud acid 21,2504 20/40 sand 10 10 mash saind 11 10 Mash spirate (Producing or Floring Sales) 12 10 Mash of AVACHSHARP (MD) ANGEL TO MASH (MD) AN	4864-70	• .			1		
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TABLE SIZE WEIGHT, LE/FT DEPTH SPT (MD) HOLE SIZE CENESTING RECORD AMOUNT PULLED 13 3/8" 54.5 365 17 1/4" 400 sacks Class G Mone 8 5/8" 24 2404 11" 300 sacks LINER RECORD 30. TURING RECORD SIZE TOP (MD) BOTTOM (MD) BACKS CEMENT* SCREEN (MD) SIZE DEPTH STT (MD) PACKES SET (MD) NU LINER RUM PERFORATION RECORD (Interval, size and number) 4864' - 4870' 24 holes, 4 holes/ft DEPTH INTERVAL (MD) 15.000 100 mash saind 7 1/2" mud acid 21.250f 20/40 sand PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size chill type of pump) 8/16/77 Flowing thru orifice meter PRODUCTION 8/17/77 4 0 orifice Plate SALCOLARD OLL—BEL CAS—MCF. WATER—BEL GAS—OLL ALTED TOWN TORMS PERSON. PACKES FOR STREET (CORR.) 630 psi hole LINER RECORD AMOUNT AND KIRD OF MATERIAL (MED) AND LINER RECORD AND LINER RECORD AND LINER RECORD AND LINER RECORD BETT INTERVAL (MD) SALCE STREET (MD) AND LINER RECORD AND		olog, C.F. De			eat for enell)		
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LINER RECORD LINER RECORD SIZE TOP (MB) BOTTON (MD)	13 3/8"	54.5	365	17 1/4"	400 sacks	Class G	None
LINER RECORD SIZE TOP (MB) BOTTON (MD) SACKS CEMENT* SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) NO LINER RUN 2 3/8" 4810 4810 LINER RUN 2 3/8" 4810 4810 LINER RUN 2 3/8" 4810 4810 SZ. ACID, SHOT. FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND EIND OF, MATERIAL C'SED ACIDIZED 4864' - Frac 30,000 gal 15,000 100 mesh saind 1/2" mud acid 21,250 20/40 sand PRODUCTION SA/16/77 Flowing they or fice meter NOW, FORTH MOTHS TERRO (Flowing, gas NH, pumping—size and type of pump) 8/16/77 Flowing they or fice meter NOW, TOURNO PRESS. DESCRIPTION BETRED (Flowing, gas NH, pumping—size and type of pump) 8/17/77 4 DOTTICE Plate ON STATEMENT OF CAS—MCF. WATER—SEL. Gas—NCF. WATER—SEL. Gas—NCF. WATER—SEL. Gas—ON. FOR CAS—MCF. WATER—SEL. GAS—MCF.	<u>8 5/8"</u>	24	2404	714			
LINER RECORD SIZE TOP (MS) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) NO LINER RUN LINER RUN SCREEN (MD) SIZE DEPTH SET (MD) PACKES SET (MD) 12 3/8" 4810 4810 4810 4810 ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DETH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED FRACTOR TOP (MS) 24 holes, 4 holes/ft ACIDIZED 4864'- 870', 1009 gal 15,0004 100 mesh sand 17/28 muid acid 21,250f 20/40 sand 32 PRODUCTION SHELL STATES (Fraction) 8/16/77 Flowing their orifice meter FROD'N, FOR OIL—BEL. GAS—MCF. WATER—BEL. (46-0)L RATEO 8/17/77 4 Orifice Plate OIL—BEL. GAS—MCF. WATER—BEL. (46-0)L RATEO 8/17/77 4 Orifice Plate OIL—BEL. GAS—MCF. WATER—BEL. (46-0)L RATEO 8/17/77 4 Orifice Plate OIL—BEL. GAS—MCF. WATER—BEL. (46-0)L RATEO 8/18/17/77 6/19/18/18/18/18/18/18/18/18/18/18/18/18/18/		3 15 108		-/8			
SIZE TOP (MB) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE DEPTH SET (MD) TACKER SET (MD) NO LINER RUN 1. PERFORATION RECORD (Interval, size and number) 4864' - 4870', 24 holes, 4 holes/ft 2. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) ANOUNT AND KIND OF MATERIAL USED ACID 24864'- Frac 30,000 gal 15,000\$ 100 mash, sand 1/23 mud acid 21,250\$ 20/40 sand 3.* PRODUCTION STEP FINANCIAL SEED ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) ANOUNT AND KIND OF MATERIAL USED ACID 24864'- Frac 30,000 gal 15,000\$ 100 mash, sand 17/23 mud acid 21,250\$ 20/40 sand 3.* PRODUCTION S/16/77 Flowing thru orifice meter S/16/77 Flowing thru orifice meter S/16/77 A Drifice Plate O 337 Trace 6. DIEFORITION OF GAS (Sold, used for fuel, yearles, etc.) Florida DETTH OF ATTACHMENTS DST #1 and DST #2 8. I hereby certify that the foregoing and attached information is complete and correct as determined from all available, records A DEFORMATION OF THE COMMENTS ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC. ACID SHOT, FRACTURE, CHAPTOR SQUEEZE, ETC. ACID SHOT, FRACTURE, CHAPTOR SQUEEZE, ETC. ACID SHOT, FRACTURE, CHAPTOR SQUEEZE, ETC. ACID SHOT, FRACTURE, CHAPTOR SQUEEZE, ETC. ACID SHOT, FRACTURE, CHAPTOR SQUEEZE, ETC.		<u> </u>		<u> </u>		TUDING PROOF	
NO LINER NUM PERFORATION RECORD (Intervel, size and number) 4864' - 4870', 24 holes, 4 holes/ft Acidized 4864'- Frac 30,060 gal 15,000\$ 100 mesh saind 1/23 mud acid 21,250\$ 20/40 sand PRODUCTION PROPURE MESS PROBLE PRODUCTION PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PRODUCTION PROPURE MESS PROBLE PROPURE MESS PR				NAME OF THE PARTY			PACEER SET (MD)
AS64' - 4870', 24 holes, 4 holes/ft ACIDIZED 4864' - 4870', 24 holes, 4 holes/ft ACIDIZED 4864' - 4870', 24 holes, 4 holes/ft ACIDIZED 4864' - 4870', 1000 gal ACIDIZED 4864' - Frac 30,000 gal ACIDIZED 4864			OM (MD) SACKS CE		1	1	
Acidized 4864' - 4870' 24 holes, 4 holes/ft Acidized 4864' - Frac 30.000 gal 15.0004 100 mesh sand 1/23 mud acid 21.2504 20/40 sand 3. PRODUCTION WELL STATUS (Producing or shut-in) 8/16/77 Flowing thru orifice meter NITE OF THET HOURS TESTED CALCULATED OIL—BBL. GAS—MCF. WATER—BBL. GAS—MCF. WATER—BBL. GAS—MCF. WATER—BBL. OIL GASVITT-API (CORR.) 8/17/77 4 Orifice Plate O 337 Trace 6. DISPOSITION OF GAR (Sold, used for fuel, wested, etc.) Flowing CALCULATED OIL—BBL. GAS—MCF. WATER—BBL. OIL GASVITT-API (CORR.) Trace 8. LIST OF ATTACHMENTS DST #1 and DST #2 6. I hereby certify that the foregoing and attached information is complete and correct as determined from all available, records A Acidized 4864' - Frac 30.000 gal 15.0004 100 mesh sand 20/40 sand 15.0004 100 mesh sand 20/40 sand 15.0004 100 mesh sand 20/40 sand 15.0004 100 mesh sand 20/40 sand 15.0004 100 mesh sand 20/40 sand 15.0004 100 mesh sand 20/40 sand 15.0004 100 mesh sand 20/40 sand 15.0004 100 mesh sand 20/40 sand 15.0004 100 mesh sand 20/40 sa					- 3/0	7010	
Acidized 4864 - 4870', 1000 gal 15,000\$ 100 mash saind 7 1/2% mud acid 21,250\$ 20/40 sand 17/2% mud acid 21,250\$ 20/40 sand 21,	, PERFORATION REC	ORD (Interval, size and	number)	82.	ACID, SHOT, FR.	ACTURE, CEMENT SQI	JEEZE, ETC.
RETUINED TOO GAT 15.0004 100 mash said 1.2% mud acid 21.2504 20/40 sand 3.* PRODUCTION PRODUCTION PRODUCTION PRODUCTION R/I FIRST PRODUCTION R/I FIRST PRODUCTION R/I OF TREET ROTE OF TREET ROTE OF TREET ROTE OF TREET ROTE OF TREET ROTE OF TREET PRODUCTION RATER PRODU	4864" - 4	370 24 holes	. 4 holme/F+	1			MATERIAL USED
PRODUCTION PROPERTY OF ASSUME PROPERTY OF PURPLES		The second training of the second training of					· · · · · · · · · · · · · · · · · · ·
PRODUCTION THE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 8/16/77 Flowing thru orifice meter PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producting or education)			ms				3
**RET PRODUCTION METROD (Flowing, gas lift, pumping—size and type of pump) **RET PRODUCTION METROD (Flowing or skut-in) **RET PRODUCTION FOR Skut-in)				1/4%	nd acid Si	.43UT &U/4U \$8	216
THE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 8/16/77 Flowing thru orifice meter THE OF TEST HOURS TESTED CHOCK SIZE PROD'N. FOR OIL—BBL. GAS—MCF. WATER—BBL. GAS—MCF. WATER—BBL. GAS—MCF. 8/17/77 4 Orifice Plate O 337 Trace 630 psi hole CALCULATED OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (COBR.) 630 psi hole O 2021 Trace TEST FORM. R. Firth S. LIST OF ATTACHMENTS DST #1 and DST #2 S. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	<u>. </u>		E	PRODUCTION			· · · · · · · · · · · · · · · · · · ·
Step Step	TE FIRST PRODUCTI		the state of the s		ind type of pump)	WELL STAT	CB (Producing or
Solution of the state of the st	8/16/77	Flowin	g thru orific	ce meter			
OW. TUBING PRESS. DACKO, PRINCIPE CALCULATED, OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.) 630 psi hole 0 2021 Trace 5. DISPOSITION OF GAS (Sold, used for feel, vented, etc.) Flared 5. LIST OF ATTACHMENTS DST #1 and DST #2 6. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records		HOURS TESTED R		PERIOD ^	31	WATER—PREL	CAS GIL RATIO
630 psi hole 24-HOUR RATE 0 2021 Trace 5. DISPOSITION OF GAS (Sold, used for feel, vented, etc.) Flared 5. LIST OF ATTACHMENTS DST #1 and DST #2 6. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records		4 01	Ifice Plate				PAVITY-API (COMP)
Flared 5. LIST OF ATTACHMENTS DST #1 and DSF #2 6. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	. 1	QUART III	M-HOUR RATE	Ÿ			TOTAL COURT
Flared 5. LIST OF ATTACHMENTS DST #1 and DST #2 6. I hereby certify that the foregoing and attached information is complete and correct as determined from all available, records			vonted, etc.)		V41 (a)		BY
5. LIST OF ATTACHMENTS DST #1 and DST #2 8. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			an er til skræde. Til fill fill 1992. Sy 1872				to the second of
6. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	5. LIST OF ATTACH		<u>p</u>	şet.		1 77 7 7 7 7 7	
		W	And And	**	en en en en en en en en en en en en en e		
Engineer Engineer	6. I hereby certify	that the foregoing an	attached information	is complete and corre	ct as determined fr	om all available record	3
	arca	I N	har S	Enginee			(1.7/77
							2

INSTRUCTIONS

or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. It is unsummary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency.

should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. or Federal office for specific instructions.

interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Hem 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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			TRUE VERT. DEPTH	. ·			, <u>.</u>			- '							
	TOP	TRUE VI					*. *	•••	. ,								
GEOLOGIC MARKERS	L	MEAS. DEPTH		705	2045	3410	5104	11.			^	, î	·.	,			
38. GEOLOGI	NAMI		(Log Tops)		(Log Tops) Green River H Marker		Mesaverde	lesaverde		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		- 1944 (1973) - 1944 (1974)					
CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING AND SHUT-IN PERSSUMES, AND RECOVERIES	a, Brc.					2 information								₹,*			
INTERVALS; AND ALL D HUT-IN PRESSUMES, AND	DESCRIPTION, CONTENTS, ETC.		wed gas			l and \$No.									\		
			Flowed			E DST NO.		1		:		<i>j</i>	ŧ	-			
MARY OF POROUS ZONES: Show all important-zones of pobosity and contents thereof; depth interval tested, cushion used, time tool open, flowing	BOTTOM		4870			sheets for						-					
US ZONES:	TOP		4864			attached		4		Pag	ì			* * * * * * * * * * * * * * * * * * *			
37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF DEPTH INTERVAL TESTED, CUSH.	FORMATION		Wasatch	-		Please see attached								¥.			

PACIFIC TRANSMISSION SUPPLY COMPANY

245 MARKET STREET
SAN FRANCISCO, CALIFORNIA 94105
(415) 781-0474

August 18, 1977

Mr. Cleon B. Feight, Director Division of Oil, Gas and Mining 1588 West, North Temple Salt Lake City, UT 84116

Dear Mr. Feight:

RE: PTS 44-5 Federal
Devil's Playground Unit
T10S, R24E, Sec. 5
Uintah County, Utah

Enclosed are duplicate copies of a Completion Notice for the above captioned well.

Very truly yours,

EUGENE R. HENRY

ERH:mly Enclosures

CONFIDENTIAL

212 GOODSTEIN BUILDING
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

GEOLOGICAL WELL COMPLETION REPORT
PACIFIC TRANSMISSION SUPPLY COMPANY

PTS #44-5 Federal

SECTION 5, TOWNSHIP 10 SOUTH, RANGE 24 EAST UINTAH COUNTY, UTAH

Submitted by: David R. Hadden, Geologist Pacific Transmission Supply Company August 5, 1977

PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING P. O. BOX 3093 CASPER, WYOMING 82602 (307) 265-1027

WELL DATA

PTS #44-5 FEDERAL Sec.5-T10S-R24E Uintah County, Utah

OPERATOR:

Pacific Transmission Supply Company

WELL NAME:

PTS #44-5 Federal

LOCATION:

SE/4 SE/4 Sec. 5-T10S-R24E

COUNTY & STATE:

Uintah County, Utah

ELEVATION:

Ground 5246 feet (ungraded)

K.B. 5258 feet

CONTRACTOR:

Anderson Drilling Company, Rig No. 10

Toolpusher - David Hackford

COMMENCEMENT DATE:

Spudded at 1:30 P.M. June 26, 1977

CEASE DRILLING:

12:30 A.M. August 1, 1977

TOTAL DEPTH:

Driller - 6509.2 feet Logger - 6511 feet

WELL STATUS:

Waiting on completion unit

SURFACE CASING:

13-3/8" K-55 Size -

Depth -365 feet K.B.

Cement - 400 sacks Class "G"

INTERMEDIATE CASING:

8-5/8" K-55 Size -

Depth - 2404 feet K.B. Cement - 150 sacks RCF, 150 sacks Class "G"

HOLE SIZE:

53-365' - 17-1/2"

365-2407' - 11" 2407-TD - 7-7/8"

DRILLING FLUID:

Surface-4630 - water

4630-TD -

salt mud

LOGGING:

Schlumberger

PACIFIC TRANSMISSION SULLY COMPANY

WELL DATA - Continued

SAMPLE STORAGE:

American Stratigraphic Company

Casper, Wyoming

DRILLING TIME:

TOTCO

MUDDING LOGGING UNIT:

Tooke Portable Unit

DRILLSTEM TESTS:

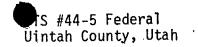
DST #1 - 6378-6509', Johnston Testers DST #2 - 4860-4880', Lynes Testers

CORES:

None

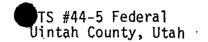
GEOLOGIST:

David R. Hadden



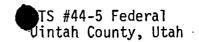
CHRONOLOGICAL WELL HISTORY

	Drilled	Hours	•
Date	to	Drilling	Activity
6 26 77		6-1/2	Spud at 1:30 P.M.
6-26-77	1601	15-3/4	Drilling surface hole.
6-27-77	169'	15-3/4	Drilling surface hole.
6-28-77	3671	0	
6-29-77	367 '	0	Ran 9 joints 13-3/8", K-55 surface casing, landed at 365' K.B.; WOC.
6-30-77	378'	1-1/2	Nipple up and pressure test BOP; drill out from surface.
7 - 1-77	925'	22	Drilling.
7-2-77	1275'	18-1/2	Drilling.
7-3-77	1870'	23-3/4	Drilling.
7-4-77	2290'	23-1/2	Drilling.
7-5-77	2407'	6-3/4	Drilling; circulate for logs; logging; plus 7' strap correction (2400' = 2407').
7-6-77	2407'	0	Waiting on rig repair.
7-7-77	2705'	12-1/4	Repair rig; trip in hole; drilling.
7 - 8-77	3151'	10	Drilling; circulate and trip out to run 8-5/8"
, 0 , ,	3.3.		casing.
7-9-77	3151'	0	WOC; nipple up and test BOP.
7-10-77	3808'	20-1/2	Drilling; trip out with bit #4 (lost one cone).
7-11-77	3873'	6-3/4	Drill on junk; repair swivel; drilling.
7-12-77	4182'	19-1/2	Trip for bit #6; drilling.
7-13-77	4524'	21-1/4	Drilling.
7-14-77	4645'	7	Working stuck pipe; replace kelly hose.
7-15-77	4645'	Ó	Fishing.
7-16-77	4645'	Ŏ	Fishing.
7-17-77	4645'	Ö	Fishing.
7-18-77	4645'	ŏ	Fishing.
7-19-77	4645'	ŏ	Fishing.
7-20-77	4645'	ŏ	Fishing.
7-21-77	4645'	ŏ	Fishing.
7-22-77	4645'	ŏ	Fishing.
7-23-77	476 7 '	21	Trip in hole with re-run bit #6; drilling.
7-23-77 7-24-77	4767 4952'	17-1/2	Drilling; pack swivel; trip for bit #10.
7-25-77	5068'	12	Drilling; pack swivel.
	5337	24	Drilling.
7-26-77	5571'	23-3/4	Drilling.
7-27-77			Drilling.
7-28-77	5814'	23-3/4	Drilling.
7-29-77	60971	23-3/4	Drilling; trip for bit #11 (re-run #6).
7-30-77	62381	18-1/2	
7-31-77	6492'	23-3/4	Drilling. Drilling; logging; plus 8.2' strap correction
8-1-77	6501 '	- 1/2	(6501' = 6509').
8-2 - 77	6509'	Ō	Logging; trip in hole for DST #1 (6378-6509').
8-3-77	6509'	0	Trip out of hole with test tool; WOO.
8-4-77	6509 '	0	Run DST #2(4860-4880').



MUD PROPERTIES

Date	Depth	<u>Weight</u>	***	Viscosity	Water Loss	Filter- Cake	PV	<u>YP</u>
6-26 - 77	60 '	Water				•		
6-27-77	135'	8.6	11.0	31				
6-28-77	258'	8.7	11.0	28				
6-29 - 77	368'	Water						
7-2-77	1011'	Water					,	
7-3-77	1525'	Water						
7-4-77	2118'	Water						
7 - 5-7 7	2400'	Water						
7-6-77	2407'	Water						
7-7-77	2541'	Water						
7 - 8-77	3151'	Water						
7-10 - 77	35881	Water						
7-11-77	3866'	Water						
7-12-77	3973'	Water						
7-13-77	4373'	Water						
7-14-77	4645'	8.7		27				
7-15-77	4645'	8.7		27				
7-16-77	4645'	8.7		28				
7-17-77	4645'	8.9	11.0	49	22.0	3/32	15	10
7-18-77	4645'	9.0	10.5	38	17.5	2/32	10	5
7-19-77	4645'	9.0	10.0	65	10.8	3/32	15	25
7-20-77	4645'	8.8	11.0	54	9.9	2/32	6	22
7-21-77	4645'	8.9	10.0	85	9.2	2/32	10	30
7-22-77	4645'	8.9	10.0	55	8.0	2/32	8	22
7-23-77	4705'	8.9	10.0	35	8.0	2/32	10	2
7-24-77	4860'	9.0	10.5	40	7.8	2/32	20	20
7-25-77	4967'	9.0	9.5	50	13.0	4/32	18	22
7-26-77	5189'	9.0	10.0	40	12.0	2/32	21	11
7-27-77	5482'	9.2	11.0	35 ,	11.0	2/32	19	9
<u>7</u> -28 - 77	5721'	9.1	11.0	36	9.8	2/32	16	6
7-29-77	5959 '	9.2	11.0	35	9.2	2/32	10	5
7-30-77	6172'	9.]	11.0	46	14.0	3/32	11	25
7-31-77	6414'	9.1	11.0	35	12.0	2/32	15	8
8-1-77	6500'	9.3	11.0	44	12.0	2/32	15	8
8-2-77	6509'	9.3	11.0	44	12.0	2/32	15	8
8-3-77	6509'	9.3	10.5	38	11.0	2/32	12	8
8-4-77	6509'	9.2	10.5	38	11.8	2/32	12	8



BIT RECORD

Bit I	<u>No</u>	Size	<u>Make</u>	<u>Type</u>	Depth <u>In</u>	Depth Out	Footage	<u>Hours</u>	_Jets_
1	7	17-1/2"	Smith	DTJ	531	367'	314'	41-1/2	3-20's
2	-	11"	Smith	DGT	365'	1011'	646	31-3/4	3-12's
3	•	11"	Smith	F-3	1011'	2407'	1396'	64-1/2	3-12's
4		7-7/8"	Hughes	J-33	2407'	3808'	1401'	43-1/4	3-12's
5		7-7/8"	Smith	F-3	38081	3873'	65'	6-3/4	3-12's
6		7-7/8"	Smith	F-45	3873'	4952'	1079'	88-1/4	3-12's
7	•	7 - 7/8"	Smith	DGTJ		F	ishing		3-11's
8		7-7/8"	Smith	DGT		F	ishing		3-11's
9		7-7/8"	Smith	DGTH		F	ishing		3-12's
10		7-7/8"	Smith	F-45	49521	62]1'	1259'	120-1/2	1-11 2-13's
11	(RR#6)	7-7/8"	Smi th	F-45	6211'	6501'	290' (1369')	29-1/2 (117-3/4)	1-14 2-12's

DEVIATIONS

<u>Depth</u>	Survey
369'	0 degrees
6841	3/4 degrees
1400'	1-1/4 degrees
1870'	2 degrees
2400'	1-3/4 degrees
3110'	2-3/4 degrees
3744'	3-1/4 degrees
4923'	3-1/4 degrees
6500'	Misrun

DRILLSTEM TESTS

DST #1, 6378-6509'

ΙH	3211#	
FH	3211#	
IF	135-107#	(10 minutes)
FF	79-173#	(90 minutes)
ISIP	464#	(60 minutes)
FSIP	361#	(120 minutes)

Slight blow at initial open, increasing to strong blow off bottom of bucket in seven minutes. No gas to surface.

Second open with strong blow off bottom of bucket, gas to surface in 62 minutes at 1/4#, 1/4" choke, with estimated rate of 19 MCF, decreasing to lazy flame at end of flow period. Time, pressure and choke size as follows:

<u>Time</u>	Pressure (P.S.I.G.)	Surface Choke
1810	1-1/4" in water	1/8"
1813	15" in water	1/8"
1818	3-3/4#	1/8"
1823	3-3/4#	1/8"
1923	3-3/4#	1/8"
1925	3-3/4#	1/8"
1926	4#	1/8"
1930	6-1/2#	1/8"
1935	6-1/4#	1/8"
1945	6#	1/8"
2010	5-1/2#	1/8"
2025	5-1/2#	1/8"
2027] #	1/4"
2033	0#	1/4"

Pipe recovery: 464 feet drilling mud

Sample Chamber recovery: 2200 cc mud, .25 cubic feet gas at 50 pounds

Temperature: 168 degrees F.

Resistivity of mud: .23 ohms at 76 degrees F., 240,000 ppm chloride Resistivity of pit mud: .10 ohms at 99 degrees F., 260,000 ppm chloride

DST #2, 4860-4880'

ΙH	2570#	
FH	2570#	
ΙF	255-153#	(10 minutes)
FF	127-127#	(90 minutes)
ISIP	2313#	(60 minutes)
FSIP	2568#	(180 minutes)

DST #2, 4860-4880' - Continued

Initial open with two inch blow, died after five minutes.

Second open with good blow, gas to surface at the following rates:

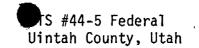
Time	<u>Pressures</u>	Choke Size	Rate
0500	6#	1/4"	22.9 MCF
0510	6#	1/4"	22.9 MCF
0520	7#	1/4"	25.0 MCF
0530	8#	1/4"	27.0 MCF
0540	9#	1/4"	29.0 MCF
0550	11#	1/4"	32.4 MCF
0600	14#	1/4"	37.6 MCF
0610	19#	1/4"	45.5 MCF
0620	23#	1/4"	51.8 MCF
0630	26#	1/4"	56.3 MCF

Pipe recovery: 45 feet of drilling mud

Sample Chamber recovery: 1000 cc mud, 0.2 cubic feet gas at 5# PSIG

Temperature: Misrun

Resistivity of mud: .35 ohms at 75 degrees F., 14,000 ppm chloride



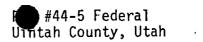
FORMATION TOPS

	Sample Top	Electric Log Top
Green River	•	705' (+4553')
H-Marker	1990'	2045' (+3204')
Wasatch	3456'	3410' (+1848')
Mesaverde	5148'	5104' (+ 154')

LOG ANALYSIS

Depth	$\frac{R_{wt}}{}$	$^{R}_{\mathsf{t}}$	"E"	Porosity	Water <u>Saturation</u>
4864-4870'	.3	80	50	13	43
5110-5120'	.3	32	88	10	91
5624-5632'	.3	21	37	15	73
5840-5865 '	.3	19	37	15	76
6056-6064'	.55	26	42	14	94
6000-6025	.55	25	37	15	90
6390-6398	.55	55	37	15	61

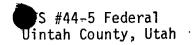
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DRILLING BREAKS (34)

	<u>Interval</u>	Units of Gas
(91)	3556-3565'	
(4')	3754-3758'	
(7')	3767-3774'	
(131)	3940-3953'	8
	4261-4268'	1
(8')	4858-4866'	368 - including down time gas
(/') (8') (2')	4927-49291	, , , , , , , , , , , , , , , , , , ,
(3')	4937-4940'	26
(22')	4971-4993'	26
(49')	5097-5146!	
(3')	5159-5162'	
(9')	5218-52271	
(15')	5237-5252'	
(14')	5266-5280'	
(5')	5283-5288 '	
(121)	5434-5446'	,
(6')	5506-5512'	
(9')	5584-5593'	
(18)	5616-5624'	28
(41)	5699-5703'	
('9')	5714-5723'	
(9')	5739-5748'	18
(171)	5765-5782'	,
(52')	5833-5885	46
(37')	5913-5950'	70
(281)	5993-6021 1	88
(101)	6048-60581	75
(13')	6190-6203'	100
(4')	6330-63341	
-	(1-1/2 - 2"/ft)	
(8')	6381-6389'	360
(8')	6444-6447'	
-	(1-1-1/2"/ft)	236
(41)	6481-6485	
	(1-4"/ft)	224
(2') (2')	6408-6410	112
(2')	6455-6457	212

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SAMPLE DESCRIPTION

Depth	Lithology
	(Samples not lagged - 30' samples)
400- 640'	Sandstone, gray, fine grain to very fine grain, occasionally medium grain, sub-angular, poorly sorted, unconsolidated, slightly calcareous, clay-filled.
640- 820¹	Sandstone, gray, fine grain to very fine grain, sub-angular, poorly sorted, slightly calcareous; shale, gray, firm, slightly calcareous, marlstone, cream to buff.
820- 880'	Shale, brown to brown-gray, soft, calcareous; trace sandstone, gray, fine grain to very fine grain, sub-angular, fair sorting, clay-filled, calcareous.
880- 910'	Sandstone, gray, light gray, occasionally white, very fine grain to fine grain, sub-angular, fair to poor sorting, commonly clay-filled, slightly calcareous, occasionally tuffaceous; shale, gray to green-gray, slightly calcareous, trace
910- 970'	Sandstone, gray, fine grain to very fine grain, occasionally medium grain, sub-angular, fair sorting, slightly calcareous, unconsolidated; shale, gray, tan.
970-1000'	Shale and marlstone, gray, buff, calcareous, sample mostly lost circulation material.
	10 foot samples
1000-1250'	Samples very poor - mostly lost circulation material; shale and marlstone, tan to brown, trace black, slightly calcareous.
1250-1330'	Marlstone, brown-gray, gray, occasionally black, slightly calcareous, faint cut on crushed sample.
1330-1490'	Marlstone, gray, brown-gray, tan, cream, black, slightly cal- careous, faint cut on crushed, dark-colored sample.
1490-1570'	Marlstone, light gray, cream, white, occasionally to rare brown-gray, black, calcareous.
1570-1630'	Marlstone, tan, brown-gray, light gray, tan, rare dark gray to black, calcareous.
1630-1710 '	Marlstone, brown-gray, gray to dark gray, black, tan, light gray, calcareous.

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1710-1740'	No sample.
1740-1810'	Maristone, brown-gray, gray to dark gray, black, tan, calcareous, very faint cut on dark-colored samples.
1810-2000'	No sample.
2000-2040'	Marlstone, gray, brown-gray, black, tan, light gray, calcareous to slightly calcareous; rare to occasional shale, gray, soft.
2040-2090'	Marlstone, gray, brown-gray, black, tan, calcareous to slightly calcareous; rare to occasional shale, gray, soft; rare sandstone, light gray to white, very fine grain, subangular, well sorted, calcareous.
2090-2120'	Shale, gray, brown, tan, slightly calcareous, commonly silty; marlstone, brown-gray, tan, black; scattered sandstone, gray to light gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous.
2120-2170'	Marlstone, brown-gray, tan, gray, black; shale, gray, cal- careous; occasional sandstone, gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous.
2170-2180 '	Marlstone, gray, tan, cream, scattered black; shale, gray, calcareous; occasional sandstone, gray to light gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous.
2180-2210'	Marlstone, brown-gray, gray, tan, black, cream; shale, gray, slightly calcareous; occasional sandstone, light gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous. (2190-2200' - no sample)
2210-2260'	Shale, light gray, calcareous; occasional to commonly sand- stone, light gray to gray, fine grain to very fine grain, sub-angular, fair to well sorted, calcareous; scattered marlstone, brown-gray, tan.
2260-2300'	Shale, light gray, gray, dark gray, occasionally calcareous; sandstone, gray, light gray, very fine grain to fine grain, sub-angular, well to fair sorted, calcareous; rare marlstone, tan; trace limestone, dark gray.
2300-2330'	Marlstone, brown-gray, black, tan; scattered limestone, dark gray; rare shale, gray.
2330-2360'	Shale, gray; marlstone, brown to tan; sandstone, light gray to gray, very fine grain, occasionally fine grain, sub-angular well sorted, calcareous. (2350-2360' - no sample)

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2360-2380'	Shale, gray, dark gray, brown-gray, commonly soft.
2380-2400'	Marlstone, light gray, brown, tan; shale, gray, black, occasionally slightly calcareous.
2400-2520'	Shale and marlstone, light gray, brown-gray, tan, black, calcareous to slightly calcareous.
2520-2580	Shale, green-gray, gray, tan, red-tan, occasionally silty, calcareous; scattered sandstone, very fine grain to fine grain, sub-angular, fair to moderately well sorted, clay-filled, calcareous.
2580-2650'	Shale, gray, light gray, maroon, soft to firm, calcareous, occasionally silty; scattered sandstone, very fine grain to fine grain, rare to medium grain, sub-angular, fair to poor sorting, silty, calcareous, commonly clay-filled.
2650-26701	Shale, black, dark brown-gray, gray, cream, occasionally calcareous; sandstone, dark gray, gray, white, very fine grain to fine grain, fair to well sorted, sub-angular, silty, calcareous, commonly clay-filled.
2670-2730'	Shale, dark gray, gray, brown-gray, cream, calcareous to slightly calcareous,; scattered sandstone, light gray, gray, white, fine grain to very fine grain, sub-angular, fair to well sorted, sub-angular, silty to clay-filled, calcareous.
2730-2 79 0'	Sandstone, light gray, white, gray, fine grain to very fine grain, moderately well sortings to fair sortings, sub-angular, silty, clay-filled, calcareous with scattered streaks of carbonaceous material; shale, gray, tan, cream, calcareous.
2790-2880'	Shale, dark gray to gray, slightly calcareous; scattered sandstone, gray, light gray, white, very fine grain to fine grain, sub-angular, fine to moderately sorting, silty, clayfilled, occasional streaks carbonaceous material, calcareous.
2880-2910	Shale, gray, brown, brown-gray, dark gray, black, firm to soft, calcareous; trace sandstone, light gray, white, very fine grain to fine grain, sub-angular, fair sorting, clay-filled, silty, calcareous.
2910-3090 1	Shale, gray, dark gray, brown-gray, tan, soft to slightly firm, calcareous, occasionaly silty; trace limestone, very dark gray, argillaceous.
3090-3150'	Shale, gray, brown-gray, dark gray, tan, soft to slightly firm, calcareous; slight trace limestone, dark gray to dark tan, commonly argillaceous.

3150-3220'	Sandstone, white to light gray, very fine grain to fine grain, sub-angular, fair sorting, slightly calcareous, clay-filled; shale, gray to dark gray, soft to firm.
3220-3240	Shale, dark gray, gray, brown-gray, soft, calcareous.
3240-3260'	Shale, dark gray, gray, brown-gray, soft, calcareous; trace limestone, dark gray, argillaceous; rare sandstone, gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; trace coal (?).
3260-3310'	Limestone, tan to dark tan, gray, argillaceous; shale, gray, dark gray, soft to firm, calcareous; sandstone, white to light gray, fine grain to very fine grain, subangular, fair sorting, calcareous, clay-filled.
3310-3350'	Limestone, cream, tan, gray, fossiliferous (ostracods), oolitic; shale, gray to dark gray, soft, calcareous.
3350-3390'	Sandstone, white to light gray, fine grain to very fine grain, sub-angular, fair to moderately well sorted, slightly calcareous, clay-filled; shale, gray to dark gray, soft to firm; limestone, cream to tan, oolitic.
3390-3430 '	Shale, gray to gray-brown, rare black, silty, soft to firm, calcareous; sandstone, white to gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clayfilled; rare limestone, dark gray, argillaceous.
3430-3450'	Sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; shale, gray to dark gray, brown-gray, soft to firm, calcareous; limestone, tan to cream, fossiliferous, oolitic.
3450-3490'	Shale, gray, brown-gray, occasionally reddish-gray, soft to firm, calcareous; sandstone, light gray to gray, fine grain to very fine grain, sub-angular, fair to poor sorting, clay-filled, calcareous; scattered limestone, tan to gray, occasionally fossiliferous.
3490-3540'	Shale, light gray to dark gray, occasionally pale red, soft to firm, calcareous; scattered sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair sorting, clay-filled, calcareous; rare limestone, gray, argillaceous, occasionally fossiliferous; trace coal.
3540-3550'	No sample.
3550-3570'	Shale, gray to light gray, red, trace yellow (very poor samples).

3570-3590'	No sample.
3590-3630'	Shale, gray, light gray, red (very poor samples).
3630-36 60'	Shale and siltstone, red, gray, maroon, mottled, occasion- ally yellow, soft, calcareous.
3660-3700 ¹	No sample. (Green River samples from base of shale shaker.)
3700-3720 '	Sandstone, light gray, salt and pepper, fine grain to medium grain, occasionally very fine grain, sub-angular, fair sorting, calcareous; shale, red, gray, maroon, mottled, slightly calcareous.
3720 - 3830'	Shale, red, gray, maroon; scattered sandstone, light gray, salt and pepper, fine grain to medium grain, occasionally very fine grain, sub-angular, fair sorting, slightly calcareous; occasional siltstone, red. (No sample: 3780-3790', 3810-3820'.)
3830-38 60'	Shale, red, maroon, green, gray, soft to firm, occasionally calcareous; scattered sandstone, light gray to gray, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, calcareous.
3860 - 3870'	No sample.
3870-3920 '	Shale, red, maroon, green, gray, soft, calcareous; trace sandstone, light gray to gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous.
3920-393 0'	Shale, red, maroon, green, gray, soft, calcareous; trace coal; trace sandstone, gray, very fine grain, sub-angular, well sorted, calcareous.
3930-3980'	Shale, red, maroon, green, gray, yellow, soft to firm; trace sandstone, light gray, fine grain to very fine grain, subangular, fair sorting, calcareous, occasionally clay-filled.
3980-4000 '	Shale, gray, green, red, yellow, soft to firm, calcareous; trace limestone, cream, occasionally fossiliferous, rarely sandy.
4000-4050'	Shale, gray, green, red, maroon, yellow, soft to firm, calcareous; slight trace coal; slight trace sandstone, light gray to gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous. (Personally caught a sample at 4065' to see how reliable samples were; the sample consisted primarily of shale, gray, red, yellow; and sandstone, light gray, white, salt and pepper, fine grain to very fine grain, rare medium grain, sub-angular, rare sub-rounded, fair to poor sorting, calcareous.)

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4050-4130'	Shale, gray, dark gray, green-gray, red, mottled, soft to firm, occasionally hard, occasionaly calcareous; trace sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair sorting, calcareous; slight trace coal.
4130-41601	Shale, gray, green, red, yellow, maroon, soft to firm, calcareous, occasionally silty.
4160-4180'	Shale, gray, green, red, yellow, maroon, soft to firm, calcareous; occasionally sandstone, light gray to white, fine grain, occasionally medium grain, sub-angular, fair to poor sorting, calcareous, occasionally clay-filled; trace coal; trace limestone, dark gray.
4180-42001	Shale, gray, green, red, maroon, yellow, soft to firm, calcareous, occasionally silty; trace sandstone, light gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; trace coal.
4200-4210'	Shale, gray, green, red, maroon, yellow, soft to firm, calcareous, scattered coal; trace sandstone, fine grain to very fine grain, sub-angular, fair to poor sorting, calcareous, commonly clay-filled.
4210-4250'	Shale, red, gray, green, maroon, yellow, soft to firm, calcareous; trace sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; trace coal.
4250-4260'	Shale, red, green, maroon, gray, yellow, soft to firm, calcareous, occasionally silty, scattered coal; trace sandstone, light gray to white, fine grain to very fine grain, subangular, fair sorting, calcareous, clay-filled.
4260-4280'	Shale, red, gray, maroon, green, yellow, soft to firm, calcareous; scattered sandstone, white to light gray, salt and pepper, fine grain to very fine grain, sub-angular, clay-filled, calcareous; rare coal.
4280-4300'	Shale, gray, red, green, yellow, soft to firm, calcareous; scattered sandstone, white, salt and pepper, fine grain, occasionally very fine grain, sub-angular, fair sorting, commonly clay-filled, calcareous; rare coal.
4300-4330'	Shale, gray, red, green, yellow, soft to firm, calcareous; rare sandstone, white to light gray, fine grain to very fine grain, sub-angular, fair sorting, clay-filled, calcareous; trace coal.
4330-4380'	Shale, gray, red, green, yellow, soft to firm, calcareous; trace sandstone, light gray, white, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, clayfilled, calcareous.

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4380-4390'	Sandstone, white, salt and pepper, fine grain, occasionally medium grain, sub-angular, poor sorting, commonly clay-filled, calcareous; shale, red, gray, green, yellow, soft to firm, calcareous.
4390-4410 ^t	Sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; shale, gray, red, green, soft to firm, calcareous; trace coal.
4410-4440'	Shale, gray, red, green, soft to firm, calcareous; sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; trace coal.
4440-4460*	Shale, gray, green, red, soft to firm, calcareous; trace coal.
4460-4490'	Shale, red, green, gray, yellow, soft to firm, calcareous; sandstone, light gray to white, salt and pepper, fine grain, occasionally medium grain and very fine grain, sub-angular, fair to poor sorting, calcareous, commonly clay-filled.
4490-4560	Shale, gray, red, maroon, green, yellow, soft to firm, calcareous; scattered sandstone, light gray, white, salt and pepper, fine grain, occasionally very fine grain, subangular, fair sorting, calcareous, commonly clay-filled; trace coal.
4560-4590	Sandstone, light gray, white, salt and pepper, fine grain to very fine grain, occasionally medium grain, sub-angular, poor to fair sorting, calcareous, clay-filled; shale, gray, red, maroon, green, yellow, occasionally silty, soft to firm, calcareous; trace coal.
4590-4650 '	Shale, gray, red, maroon, green, yellow, soft to firm, occasion- ally silty, calcareous; sandstone, light gray, white, salt and pepper, fine grain to very fine grain, rare medium grain, sub- angular, poor to fair sorting, calcareous, commonly clay- filled.
4650-4690'	Sandstone, white, light gray, salt and pepper, fine grain, occasionally very fine grain, sub-angular, well to fair sorting, calcareous, commonly clay-filled; shale, gray, red, gray-green, calcareous, silty; scattered limestone, gray, argillaceous.
4690 - 4750 '	Shale, gray-green, gray, green, red, soft to firm, occasion- ally silty, calcareous; sandstone, gray, light gray, white, salt and pepper, very fine grain to fine grain, sub-angular, fair sorting, calcareous, commonly clay-filled; scattered limestone, gray, argillaceous.

4750-47601	Marlstone, white; sandstone, gray, light gray, white, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; shale, gray, gray-green, occasionally red, calcareous.
4760-4780'	Shale, gray, gray-green, red, soft to firm, calcareous; marlstone, white; scattered sandstone, white to light gray, salt and pepper, fine grain to very fine grain, fair sorting, calcareous, clay-filled.
4780-4850 ¹	Shale, red, gray, gray-green, soft to firm, occasionally calcareous; siltstone, red; sandstone, light gray, gray, white, salt and pepper, very fine grain to fine grain, sub-angular, fair to poor sorting, calcareous, clay-filled; trace pyrite.
4850 - 4880¹	Sandstone, light gray, white, salt and pepper, fine grain to yery fine grain, sub-angular, fair to moderately well sorted, calcareous, clay-filled; shale, gray, gray-green, red, soft to firm, calcareous.
4880-4900¹	Sandstone, gray, white, salt and pepper, medium grain to very fine grain, sub-angular, fair to poor sorting, commonly clayfilled, calcareous; shale, gray, gray-green, red, soft to firm, calcareous; scattered carbonaceous shale.
4900-4930 \	Sandstone, gray, salt and pepper, fine grain to medium grain, occasionally very fine grain, sub-angular, fair to poor sorting, slightly calcareous, occasionally clay-filled; scattered dark gray to black, carbonaceous shale.
4930-49501	Sandstone, gray, salt and pepper, medium grain to fine grain, sub-angular, fair sorting, calcareous, clay-filled; shale, dark gray to black, soft, occasionally carbonaceous; trace coal.
4950-5010'	Shale, gray, gray-green, red, occasionaly silty, calcareous, soft to firm; sandstone, gray, salt and pepper, fine grain to medium grain, occasionally very fine grain, sub-angular, poor to fair sorting, calcareous, clay-filled.
5010-5030'	Sandstone, gray, light gray, salt and pepper, medium grain to very fine grain, sub-angular, poor to fair sorting, calcareous, clay-filled; shale, gray, dark gray, red, soft to firm, calcareous.
5030-50601	Sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair to well sorted, abundant clay-filling, calcareous; occasional shale, gray to dark gray, soft to firm, slightly calcareous; scattered siltstone, gray.
5060-5140'	Sandstone, light gray to white, salt and pepper, fine grain to very fine grain, occasionally medium grain, sub-angular, fair to well sorted, occasionally poorly sorted, abundant

clay-filling, calcareous; shale, gray to dark gray, soft to firm, calcareous; scattered siltstone, gray, slightly calcareous.

5140-52001

Sandstone, white, salt and pepper, fine grain to medium grain, sub-angular, fair sorting, calcareous, abundant clay-filling; occasionally siltstone, gray, slightly calcareous; scattered shale, gray to dark gray, slightly calcareous.

5200-52501

Sandstone, white, light gray, gray, salt and pepper, fine grain, occasionally medium grain and very fine grain, subangular, poor to fair, occasionally well sorted, abundant clay-filling, calcareous; shale, gray, occasionally gray-green, occasionally red, soft to firm, calcareous, occasionally, silty, occasionally carbonaceous; rare to trace coal.

5250-53001

Sandstone, white, light gray, salt and pepper, fine grain, occasionally medium grain and very fine grain, sub-angular, poor to fair sorting, occasionally well sorted, abundant clay-filling, calcareous; shale, gray, gray-green, red, occasionally silty, occasionally carbonaceous; siltstone, dark gray, occasionally carbonaceous, slightly calcareous; trace limestone, light gray, micritic. (No sample 5260-5270'.)

5300-53101

Sandstone, white, salt and pepper, fine grain to medium grain, sub-angular, fair sorting, calcareous, clay-filled; scattered shale, gray, occasionally silty, slightly calcareous.

5310-53601

Sandstone, white, gray, salt and pepper, fine grain, occasionally medium grain and very fine grain, sub-angular, fair sorting, occasionally well sorted, clay-filled, calcareous; shale, gray, dark gray, trace red, occasionally carbonaceous; rare siltstone, dark gray, slightly calcareous, occasionally carbonaceous. (No sample 5330-5340'.)

5360-54201

Sandstone, white, light gray, gray, salt and pepper, fine grain to very fine grain, rarely medium grain, sub-angular, fair to poor sorting, calcareous, clay-filled; shale, gray, dark gray, trace red, occasionally silty, occasionally carbonaceous; scattered siltstone, dark gray, occasionally carbonaceous; occasional to scattered coal.

5420-54501

Sandstone, gray, white, salt and pepper, fine grain to very fine grain, sub-angular, poor to fair sorting, clay-filled, calcareous, occasionally silty; siltstone, dark gray, carbonaceous; shale, dark gray, carbonaceous, rare coal. (No sample 5430-5440',)

5450-5460'	Sandstone, white, salt and pepper, fine grain to medium grain, sub-angular, fair sorting, abundant clay-filling, very slightly calcareous; scattered siltstone, dark gray, carbonaceous; scattered shale, dark gray, carbonaceous.
5460-5470 ⁽	Sandstone, gray, dark gray, fine grain to very fine grain, sub-angular, fair to well sorted, occasionally calcareous, occasionally clay-filled; siltstone, dark gray, occasionally carbonaceous, occasionally calcareous; shale, gray, dark gray, occasionally black, occasionally carbonaceous.
5470-5510 ¹	Sandstone, white, light gray, salt and pepper, fine grain, occasionally very fine grain, sub-angular, fair to well sorted, occasionally calcareous, clay-filled; shale, dark gray, gray, occasionally carbonaceous; siltstone, dark gray, occasionally carbonaceous; trace coal.
5510-5520 ^t	Shale, gray to dark gray, rare black, rare carbonaceous; siltstone, dark gray; rare sandstone, light gray, white, fine grain, sub-angular, fair sorting, calcareous, clay-filled.
5520-5540'	Sandstone, white, salt and pepper, fine grain, sub-angular, fair sorting, calcareous, abundant clay-filling; scattered shale, gray, trace red, rare carbonaceous; rare siltstone, dark gray, occasionally carbonaceous.
5540-55801	Sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, fair to well sorted, calcareous, clay-filled; siltstone, dark gray, sandy, slightly calcareous, occasionally carbonaceous; shale, gray; trace coal.
5580-56 50'	Sandstone, white, salt and pepper, occasionally light gray to gray, fine grain, occasionally very fine grain, subangular, fair to well sorted, clay-filled, slightly calcareous; siltstone, dark gray, sandy, occasionally carbonaceous, slightly calcareous; shale, gray to dark gray, soft to firm, occasionally carbonaceous; trace coal, shaley.
5650-5730'	Shale, gray, dark gray, black, soft to firm, occasionally carbonaceous; sandstone, white, light gray, salt and pepper, brown (?), fine grain, very fine grain, sub-angular, fair to well sorted, slightly calcareous, clay-filled; siltstone, dark gray, brown (?), occasionally carbonaceous; trace coal.
5730-5740'	Sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, fair to well sorted, calcareous, clay-filled, slight trace fluorescence, very, very faint cut; shale, gray, dark gray, scattered siltstone, dark gray.
5740-57 <u>5</u> 0'	Shale, gray, dark gray, occasionally carbonaceous; sandstone, white, light gray, salt and pepper, fine grain, sub-angular, fair to well sorted, calcareous to slightly calcareous, clayfilled, slight trace fluorescence, very, very faint cut.

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Shale, gray, dark gray, red, occasionally silty, occasionally carbonaceous; siltstone, dark gray, red, green-gray, occasionally carbonaceous; scattered sandstone, white, light gray, salt and pepper, fine grain to very fine grain, subangular, calcareous, clay-filled.

5790-58101

Sandstone, white, light gray, very fine grain to fine grain, sub-angular, fair to well sorted, clay-filled, slightly calcareous; shale, gray, dark gray, black, occasionally carbonaceous; siltstone, dark gray, occasionally sandy, occasionally carbonaceous.

5810-58601

Shale, gray, dark gray, red, black, soft to firm, occasionally carbonaceous; sandstone, white, light gray, gray, salt and pepper, fine grain, occasionally medium grain, very fine grain, sub-angular, poor to fair sorting, calcareous to slightly calcareous, clay-filled; siltstone, gray, dark gray, occasionally sandy, occasionally carbonaceous.

5860-59001

Sandstone, white, salt and pepper, fine grain to very fine grain, occasionally medium grain, sub-angular, fair to moderately well sorted, calcareous, clay-filled, trace spotty fluorescence, no cut; shale, gray, dark gray, red, firm to soft, commonly carbonaceous; scattered siltstone, dark gray, carbonaceous; trace to rare coal.

5900-5960'

Interbedded sandstone, shale and siltstone; sandstone, white, light gray, salt and pepper, fine grain, occasionally medium grain, sub-angular, fair to moderately well sorted, clay-filled, slightly calcareous, trace fluorescence, no cut; shale, gray, dark gray, trace red, soft to firm, occasionally carbonaceous; siltstone, dark gray, occasionally carbonaceous; scattered coal; trace limestone, gray.

5960-60201

Shale, gray, light gray, black, red, soft to firm, occasionally carbonaceous; siltstone, light gray, gray, occasionally carbonaceous, calcareous; rare coal; trace sandstone, white, light gray, salt and pepper, fine grain, occasionally medium grain, sub-angular, poor to fair sorting, clay-filled, calcareous.

6020-60401

Shale, gray, dark gray, red, soft to firm, calcareous, occasionally carbonaceous; siltstone, dark gray, carbonaceous; scattered sandstone, white, light gray, salt and pepper, fine grain, occasionally medium grain and very fine grain, sub-angular, poor to moderately well sorted, commonly clay-filled, calcareous; trace limestone, gray, argillaceous.

6040-6090

Shale, gray, light gray, red, gray-green, ochre, soft to firm, occasionally carbonaceous; scattered coal; scattered siltstone, dark gray, gray, occasionally carbonaceous; sandstone, light

. .

	gray, white, fine grain, occasionally very fine grain to medium grain, sub-angular, fair to well sorted, commonly clay-filled, calcareous; slight trace limestone, gray, buff, argillaceous.
6090-61201	Shale, gray, light gray, red, gray-green, ochre, soft to firm, occasionally carbonaceous; scattered siltstone, dark gray, gray, occasionally carbonaceous; sandstone, light gray, white, fine grain, occasionally very fine grain to medium grain, sub-angular, poor to fair sorting, commonly clay-filled, calcareous; rare coal.
6120-61401	Shale, gray, dark gray, red, ochre, soft to firm, carbon-aceous, calcareous; siltstone, gray, dark gray, calcareous, carbonaceous, occasionally sandy; occasionally coal; trace sandstone, light gray, very fine grain to fine grain, sub-angular, moderately well sorted, calcareous, clay-filled.
6140-6160	Sandstone, light gray, salt and pepper, fine grain, occasion-ally very fine grain, sub-angular, fair sorting, calcareous, abundant clay-filling; shale, gray, light gray, green-gray, very slightly calcareous, occasionally carbonaceous; scattered to rare coal.
6160-62001	Shale, gray, dark gray, black, red, slightly calcareous, occasionally carbonaceous; siltstone, dark gray, sandy, occasionally carbonaceous, calcareous; sandstone, light gray to white, salt and pepper, fine grain, occasionally very fine grain, sub-angular, fair to moderately well sorted; scattered coal (sandstone becoming more common in bottom 20 feet).
6200-6210'	Sandstone, light gray, fine grain to very fine grain, sub- angular, fair sorting, very slightly calcareous to calcareous, clay-filled; scattered coal; scattered shale, gray, dark gray, occasionally carbonaceous; scattered siltstone, gray, occasion- ally carbonaceous, very slightly calcareous.
6210-6230'	Sandstone, white, gray, salt and pepper, fine grain, sub- angular, fair to moderately well sorted, clay-filled, cal- careous; shale, gray, dark gray, red, gray-green, occasion- ally carbonaceous, calcareous; siltstone, gray, dark gray, calcareous, occasionally carbonaceous, rare coal.
6230-6250 ¹	Sandstone, brown-white, white, gray, fine grain to very fine grain, sub-angular, fair sorting, clay-filled slightly calcareous to calcareous; siltstone, brown-gray, dark gray, sandy, carbonaceous, calcareous, becoming more common in bottom 10 feet; shale, brown-gray, silty; scattered coal.
6250-6280'	Siltstone, brown-gray, dark gray, sandy, occasionally carbon-aceous; shale, brown-gray, dark gray, occasionally carbonaceous;

. . . .

· .	sandstone, dark gray, brown-gray, white, fine grain to very fine grain, sub-angular, poor to moderately well sorted, clay-filled, silty; scattered coal.
6280-62901	Siltstone, brown-gray, gray, dark gray, sandy, carbon-aceous, calcareous; shale, gray, light gray; scattered coal.
6290-6320'	Siltstone, dark gray, gray, sandy, commonly carbonaceous; shale, gray, dark gray, soft, carbonaceous; coal common; scattered sandstone, light gray, gray, white, salt and pepper, fine grain to very fine grain, rare medium grain, fair to poor sorting, occasionally calcareous, clay-filled, rare carbonaceous inclusions.
6320-6350 '	Shale, light gray, dark gray, green-gray, occasionally red, occasionally carbonaceous, calcareous; siltstone, dark gray, sandy, slightly calcareous, carbonaceous; sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, slightly calcareous, clay-filled; rare to scattered coal.
6350-6400'	Shale, dark gray, light gray, green-gray, occasionally red, occasionally carbonaceous; siltstone, dark gray, sandy, carbonaceous; scattered coal; rare sandstone, white, light gray, brown-gray, fine grain to very fine grain, sub-angular, fair to poor sorting, slightly calcareous, clay-filled.
6400-6440'	Shale, gray, gray-green, dark gray, red, carbonaceous, calcareous; coal; siltstone, light gray, dark gray, calcareous, occasionally carbonaceous; scattered sandstone, light gray, white, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled.
6440-6450'	Shale, gray, dark gray, gray-green, red, calcareous, occasionally carbonaceous; siltstone, gray, dark gray, calcareous, occasionally carbonaceous; coal, common; scattered sandstone, white, light gray, fine grain, occasionally very fine grain, sub-angular, fair sorting, clay-filled, calcareous.
6450-6460'	Coal, very abundant; scattered sandstone, gray, gray-green, dark gray, red, calcareous; scattered siltstone, gray, brown, calcareous; scattered sandstone, white, fine grain, subangular, fair sorting, calcareous, clay-filled.
6460-6480 ⁽	Shale, gray, dark gray, green-gray, red, occasionally carbon-aceous, calcareous; coal; sandstone, white, light gray, gray gray-green, fine grain, very fine grain, sub-angular, fair to well sorted, calcareous, clay-filled; siltstone, dark gray, gray, sandy, occasionally carbonaceous.

PACIFIC TRANSMISSION SUPLY COMPANY

6480-65001

Sandstone, brown-gray, gray, white, very fine grain to fine grain, sub-angular, moderately well to poor sorting, calcareous, clay-filled; shale, gray, gray-green, red, calcareous; siltstone, gray, brown-gray, sandy, calcareous; common to occasional coal.

Circulation sample at total depth (at 60 minutes): Sandstone, light gray, light brown-gray, white, salt and pepper, fine grain to very fine grain, sub-angular, fair to well sorted, clay-filled, calcareous; coal; shale, gray, dark gray, green-gray; siltstone, gray, brown-gray, occasionally sandy **JOHNSTON**

Schlumberger

computerized data analysis

COMPUTERIZED DATA ANALYSIS

August 11, 1977

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION PRODUCED ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT AND ADEQUATE SHUT-IN BUILD-UPS DID OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. RESERVOIR PARAMETERS WERE CALCULATED, BY THE MCKINLEY METHOD.

- 1. FLOW RATE: AN ESTIMATED FLOW RATE OF $\frac{7 \text{ MCF/DAY}}{1 \text{ MCF/DAY}}$ of gas was noted during this test.
- 2. RESERVOIR PRESSURE: EXTRAPOLATION OF THE INITIAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF 580 p.s.i.g. AT RECORDER DEPTH.

 EXTRAPOLATION OF THE FINAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF 527 p.s.i.g. AT RECORDER DEPTH. THE DIFFERENCE BETWEEN THE INITIAL AND FINAL SHUT-IN PRESSURE OF 53 p.s.i.g. IS SIGNIFICANT BUT PROBABLY DUE TO INSUFFICIENT FINAL SHUT-IN TIME.
- 3. PERMEABILITY: THE CALCULATED TRANSMISSIBILITY FACTOR OF 18 MD.-FT./CP. INDICATES AN AVERAGE EFFECTIVE PERMEABILITY TO GAS OF .002 MD. FOR THE REPORTED 131 FOOT TEST INTERVAL. THE CALCULATIONS WERE BASED ON A MCKINLEY SLOPE OF 396 P.S.I./LOG CYCLE OBTAINED FROM THE FINAL SHUT-IN BUILD-UP PLOT. IT WAS ASSUMED FOR THESE CALCULATIONS: (A) GAS GRAVITY 0.70 (B) VISCOSITY .012 CP. (C) AND GAS DEVIATION FACTOR 0.95. THESE FIGURES WERE OBTAINED FROM THE AVAILABLE TECHNICAL LITERATURE.
- 4. Well Bore Damage: The calculated Damage Ratio of 1.29 indicates that minor well bore damage is present at the time and conditions of this test. This value infers that the rate of production observed at the formation face during this test may be increased 1.29 times if the well bore damage alone were removed.
- 5. RADIUS OF INVESTIGATION: THE CALCULATED RADIUS OF INVESTIGATION OF THIS TEST IS 1 FOOT BASED ON AN ASSUMED POROSITY OF 15%, COMPRESSIBILITY OF 1.5 X 10⁻³, AND OTHER ASSUMPTIONS MADE IN NUMBER 3 ABOVE.
- 6. GENERAL COMMENTS: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY LOW PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID AND INDICATES THE PRESENCE OF MINOR WELL BORE DAMAGE. THE CONTOUR OF THE BUILD-UP CURVES AND THE VOLUME OF GAS PRODUCED SUGGESTS A TIGHT FORMATION. BECAUSE OF THE NATURE OF THIS TEST, RESERVOIR PARAMETERS CALCULATED SHOULD BE USED WITH EXTREME CAUTION.

KENT ARCENEAUX
RESERVOIR EVALUATION

DEPARTMENT

PACIFIC TRANSMISSION SUPPLY COMPANY FEDERAL #44-5; UINTAH COUNTY, UTAH TEST 1; 6378' TO 6509'

FIELD REPORT #09648 D

LOCATION: SEC. 5, T-10S, R-24E
In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

Gas Reservoir Engineering Data



Instrument No. ___ J-294

Field Report No. 09648 D

Damage Ratio	DR	1.29		Effective Tro	on smissibility GAS	<u>Κh</u> μ	18.0	Md-ft. Cp.
Maximum Reservoir Pressure	P.	575	P.S.I.G.	Flow Rate	ESTIMATED GAS	Q _g	7	MCF/day
Slope of Shut-in Curve CALCULATED	Mg	396	PSI/log cycle	Flow Rate		Q	-	
Potentiometric Surface (Datum Plane, Sea Level)	PS	226	ft.	Pressure Gra	dient		.092	PSI/ft.
Radius of Investigation		1	ft.	K (Effective	to GAS)	0.002	Md.

Assumptions made for Calculations for Gas Recoveries

- 1. Q_g is taken as steady state flow and unless stated otherwise at standard conditions 14.7 P.S.I. and 60°F.
- 2. Pr is final formation flowing pressure at steady state flow.
- 3. Formation flow is taken as single phase flow. If liquid (condensate) is produced at surface, condensation is assumed to have occurred in drill pipe.
- 4. Radial flow is assumed.
- 5. Unless given, gas specific gravity is assumed to be 0.7 (air 1.0) and having pseudo critical temperature at 385° Rankin and pseudo critical pressure of 666 P.S.I.A.
- 6. Other standard radial flow, steady state assumptions.

Empirical Equations:

1. EDR =
$$\frac{P_o^2 - P_f^2}{M_g(log T + 2.65)}$$
 where $M_g = \frac{P_1^2 - P_{10}^2}{Log Cycle}$

2. Transmissibility
$$\frac{Kh}{\mu Z} = \frac{1637^{\circ}T_{f}Q_{g}}{M_{g}}$$

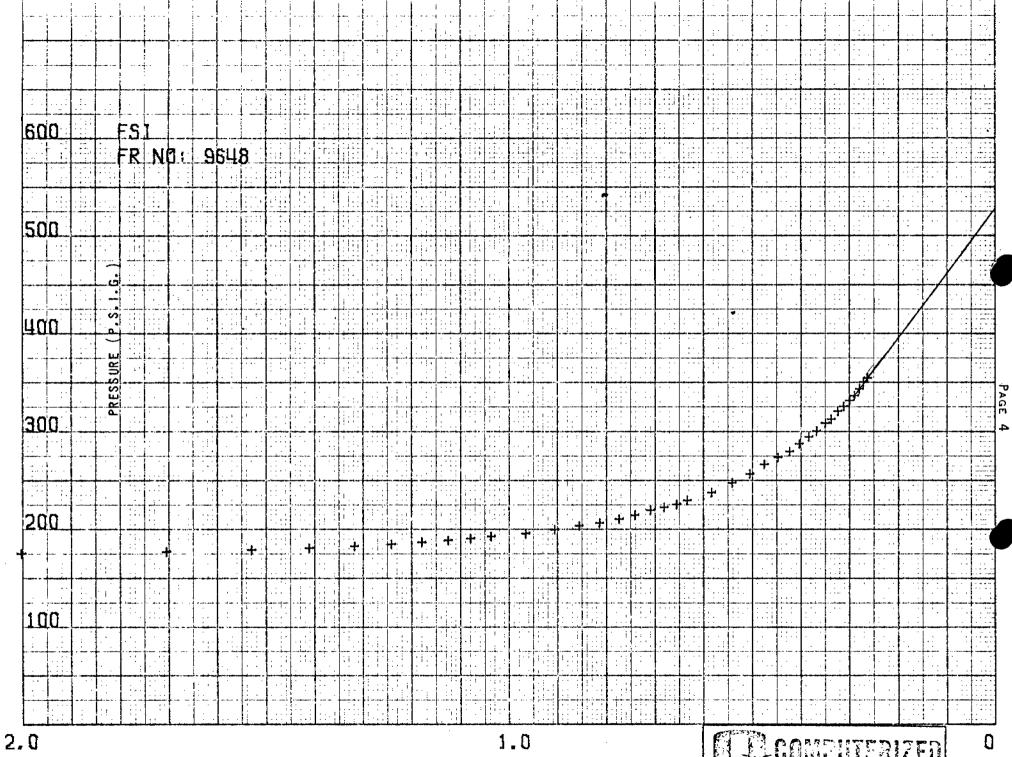
3. P.S. =
$$\left[P_o \times 2.309 \text{ ft./PSI}\right]$$
 _ [Recorder depth to sea level.]

4. Radius of Investigation,
$$r_i$$
, = $\sqrt{\frac{Kt}{40\phi (1 - S_w)\mu c}}$ where $t = time$ in days

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness or any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

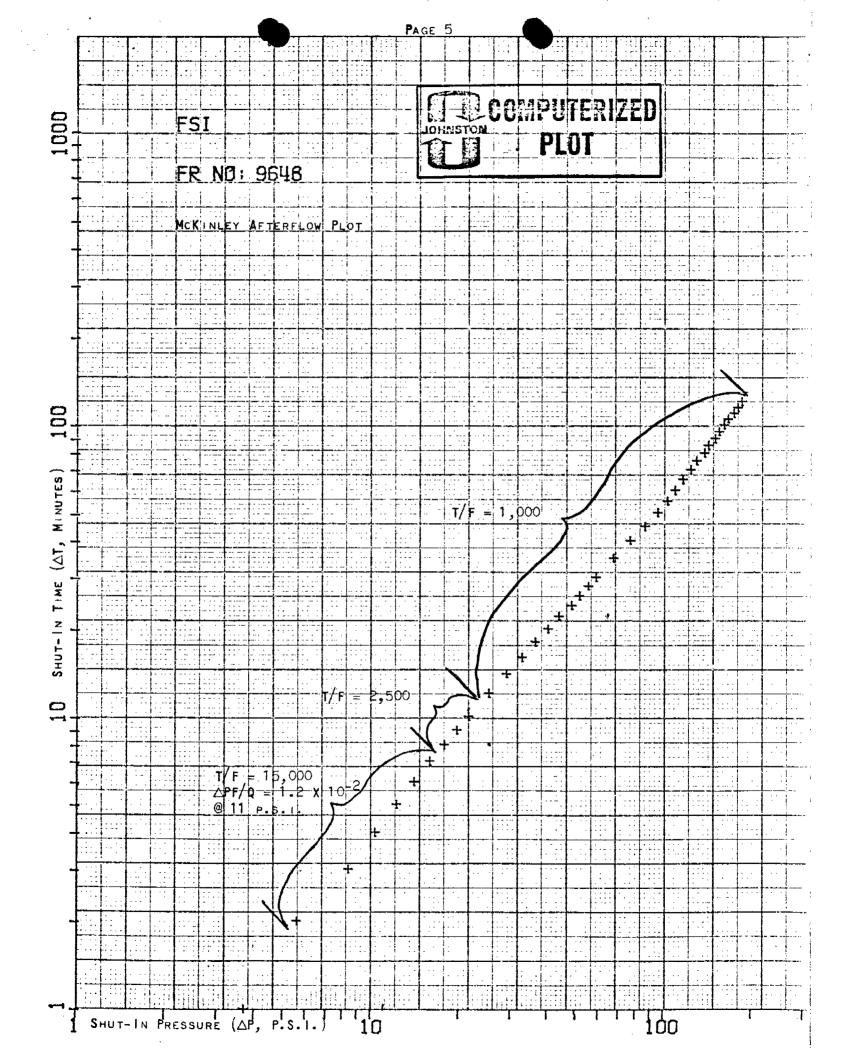
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JOHNSTON PLOT



 $Log of \frac{I + \triangle T}{\triangle T}$





SURFACE INFO		EQUIPMENT & HOLE DATA							
Description (Rate of Flow)	Time	Press (P.\$.)	ure Surfe .G.) Chai	Type 1	est		M.F.E.		
	1010	ļ		Formos	ion Tested		MESA VER		
Opened Tool BLOW, 1 1/4"IN WATER	1816		1/8	I I EIØVOTK	on	ŧ	5246 GL.		
BLOW, 15" IN WATER	1818	 		Net Pr	aductive Intervo	ol. 1	l 31		
CLOSED FOR INITIAL SHUT-IN	1823	3 3/		Estimot	red Parasity	1	5		
FINISHED SHUT-IN	1923		4 11		oths Measured F	From	KELLY BL	ISHING	
RE-OPENED TOOL	1925			Total C	Depth	6	<u> </u>		
NE OF ENED TOOL	1926	4			tole/Casing Size		7 7/8"		
	1930	6 17	, 		le/Liner Size				
	1935	6 1/	. 1	Drill Co	ollar Length		163 '	. I.D2	1/8"
	1945	1 6	·		pe Length		5876'	.1.D3	<u>.80"</u>
	2010	1 5 1/2		Packer	Depth(s)	6	372 & 6	378	
	2025	5 1/2		 -					
OPENED TO PIT	2027	1 1	1/4	—	MULT	I-FLOV	N EVAL	JATOF	}
GAS TO SURFACE	2021	 	1/4		FLUI	ID SA	MPLE D	ATA	
	2033	 0 -	- 11	—- 					
CONTINUED SMALL FLAME FOR	2000	 		Sample	r Pressure	5	0	P.S.I.	3. at Surfa
BALANCE OF TEST	 			Recover	y: Cu. Ft. Gas		<u> 25</u>		
CLOSED FOR FINAL SHUT-IN	2055	 			cc. Oil		·		·
FINISHED SHUT-IN	2255	 	- 11	 ∤	cc. Water				
PULLED PACKER LOOSE	2257	 			cc. Mud	2	200		
	1	 			Tot. Liquid cc		200		
	 -	+	-	- Gravity			*API @ .		
	 	 		Gas/Oil	l Ratio ———		· .		eu. ft./bl
		 							
	 	+				RESI	STIVITY	СН	LORIDE
	†	<u> </u>						CC	NTENT
Cushion Type Amount	Pressu	No. 1	Bottom Chok		y Water	_	a	·-	
			Size1 ''	Xecover,	y water		@ <u>-</u> _ '	F	PPI
AALID DA			VILV	Recover	y Mud	.23	a 76 •	' £	
MUD DA				Recovery	y Mud Filtrate		<u>@</u> <u>76</u> •	r. <u>24</u>	0,000 ₀₀
ud Type SALT MUD 1500sity 40	Wt	8.7							
scosity40	Water Lo	** 11.8			Sample				
sist: of Mud <u>.15</u> @ 99 °F; of loride Content 260,000	f Filtrate		99	°F Mud Pit	Sample Filtrate	- _1 _0	@ _99_ •	f. <u>260</u>), 000 _{pp} ,
ioride Content				PM					
RECOVERY DESCRIPTION	FEET	BARREL	% OIL %	WATER % OTH	ERS API GRA	VITY	RESISTI	VITY	CHL. PP
DRILLING MUD	464	2.04	.]	1 00) @	°F.	.25 @	75 °F.	240,0
					@	°F.	@	°F.	<u> </u>
					ě	°F.	@		
					@	°F.	@	• F.	
					(8)	°F.	@	* F.	
					@	°F.	@	°F,	
	1		 		@	° F.	<u> </u>	*f.	
		Ī			@	°F,	@	°F.	
marks: TOOL SLID 6' AT OPE	NING.						<u>~</u>	- '-	
					····				
-									
		ING	82602						
dess P.O. BOX 3093; CASP	ER, WYOM					·			
dress P.O. BOX 3093; CASP	ER, WYOM								
		COMPA	NY				:	_	
mpony PACIFIC TRANSMISSIO		COMPA		FC 5 T	1 OS P 24	d	WILD CA	· T	
PACIFIC TRANSMISSIO FEDERAL #44-5		COMPA	_ Location	Ec. 5, T-	10s, R-24	E			
PACIFIC TRANSMISSIO FEDERAL #44-5		COMPA		Eс. 5, Т-	10s, R-24	E			
PACIFIC TRANSMISSIO FEDERAL #44-5 1 Interval 6378' TO 6509'	N SUPPLY		_ Location	εc. 5, T-	10S, R-24	• <u> </u>	8-2-77		
PACIFIC TRANSMISSIO FEDERAL #44-5 6378' TO 6509'	N SUPPLY	UTAH	Location S Test # 1		10S, R-24	E		48 D	



PRESSURE LOG*

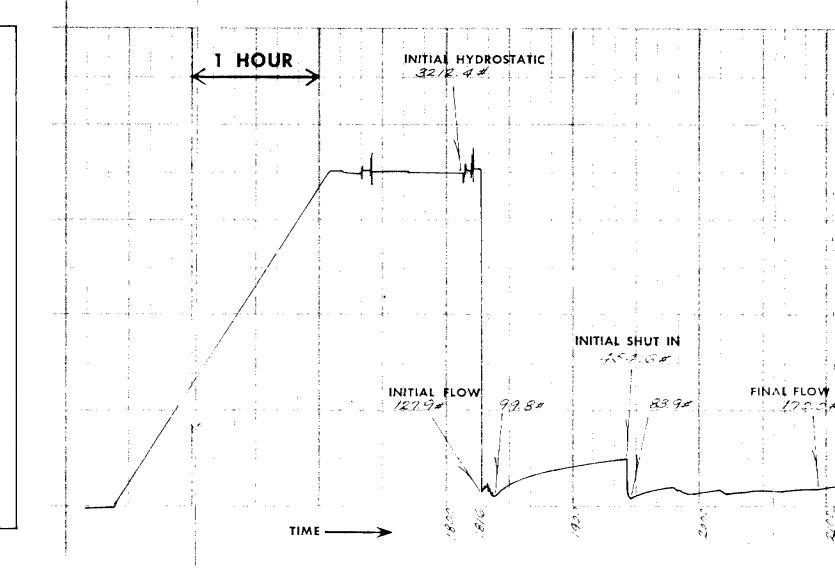
Field Report No. 29648 D

Instrument: J-294

Capacity 4700 p.s.i.

Depth 6380 ft.

*a continuous tracing of the original chart



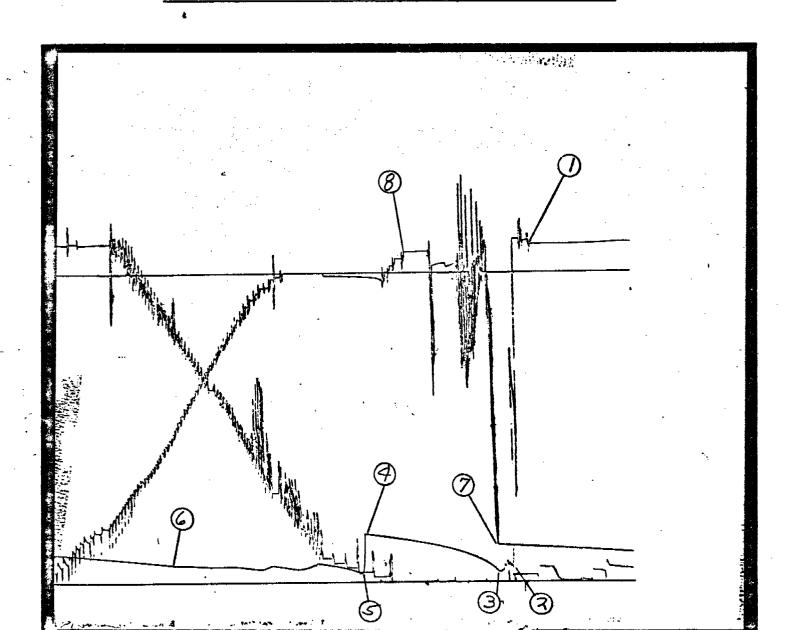
PINAL HYDROSTATIC 1 HOUR

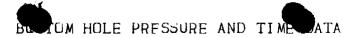
FIELD REPORT NO.: 09648 D

CAPACITY: 4700#

NO. OF REPORTS: 6-

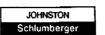
PRESSURE DATA FROM THIS CHART IS PRESENTED ON NEXT PAGE







INSTRU	MENT NO	.: J-294	CAPACITY	P.S.I.):	4700	DEPTH: 6380 FT.
PORT U	PENING:	INSIDE	BOTTOM HOL	E TEMP.:	168	PAGE 1 UF 2
INITIAL INITIAL INITIAL INITIAL FINAL F FINAL F FINAL S	FLOW(1 FLOW(2 SHUT-I LOW(1) LOW(2) HUT-IN	TATIC MUD)	LABELED POINTS 1 2 3 4 5 6 7	PRESSURE (P.S.I.) 3212.4 127.9 99.8 454.6 83.9 170.0 354.4 3140.3		COMPUTED TIME 7 61 91 120
			INCREMENTAL	READINGS		
LABEL POINT	DELTA TI ME	PRESSURE (P.S.I.)	T + DT/DT	LOG	PW - PF (P.S.I.)	COMMENTS
1 2	0	3212.4 127.9				HYDROSTATIC MUD INITIAL FLOW(1)
3 3 4 5	570505050505050505050505050505050505050	111.1 99.8 99.8 180.3 231.8 271.1 303.0 330.1 352.6 373.2 391.9 408.7 454.6 438.7 454.6 83.9 .112.0 139.1 158.8 176.6 158.8 127.9 136.3 151.3 155.0 127.9 141.0 153.2 157.9 163.5	2.400 1.700 1.467 1.350 1.280 1.233 1.200 1.175 1.156 1.140 1.127 1.117	0.380 0.230 0.166 0.130 0.107 0.091 0.079 0.070 0.063 0.057 0.052 0.048 0.047	80.5 132.0 171.3 203.1 230.3 252.7 273.3 292.1 308.9 324.8 338.9 352.9 354.8	INITIAL FLOW(2) STARTED SHUT-IN INITIAL SHUT-IN FINAL FLOW(1)



PAGE 2 OF 2

LABEL POINT	DELTA TIME	PRESSURE (P.S.I.)	T + DT/DT	LOG	PW - PF (P.S.I.)	COMMENTS
			99.000 50.000 33.667 25.500 20.600 17.333 15.000 13.250 11.889 10.800 9.167 8.000 7.125 6.444 5.900 5.455 5.083 4.769 4.500 4.267 3.800 3.450 3.178 2.960 2.782 2.633 2.508 2.400 2.782 2.633 2.508 2.400 2.782 2.153 2.089 2.032 1.980 1.933	1.996 1.699 1.527 1.407 1.314 1.239 1.176 1.122 1.075 1.033 0.962 0.903 0.853 0.809 0.771 0.737 0.706 0.653 0.653 0.653 0.653 0.653 0.502 0.471 0.444 0.421 0.399 0.380 0.363 0.347 0.333 0.320 0.308 0.297 0.286		FINAL FLOW(2) STARTED SHUT-IN
***	.110 .115	343.2 349.8	1.891 1.852	0.277 0.268	173.2 179.7	ETALLY CHILDS TO
7 8	120	354.4 3140.3	1.817	0.259	184.4	FINAL SHUT-IN HYDROSTATIC MUD

Ticket No.

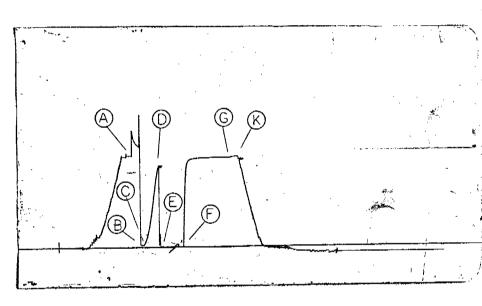
Date 8-4-77

Contractor_	Anderson Drlg. Co.
Rig No.	10
Spot	SE-SE
Sec.	5
Twp	10 S
Rng.	24 E
Field	Wildcat
County	Unitah
State	Utah
Elevation	5246' "Ground"
Formation_	Wasatch

1 VI 4 C	コント	P
F 64 ho. 1_	10	Min.
Shut-in No. 1_	60	Min.
Flow No. 2	90	Min.
Shut-in No. 2_	180	Min,
Flow No. 3		Min.
Shut-in No. 3_		Min.

120 ⁰ F
9.5
45

Tool opened @ 3:43 AM.



Outside Recorder						
PRD Make Kuster K-3						
No. 12999 Cap. 61	50	<u>@_4870'</u>				
Press		Corrected				
Initial Hydrostatic	Α	2452				
Final Hydrostatic	K	2432				
Initial Flow	В	97				
Final Initial Flow	С	77				
Initial Shut-in	D	2136				
Second Initial Flow	E	54				
Second Final Flow	F	50				
Second Shut-in	G	2398				
Third Initial Flow	Н					
Third Final Flow	Ī					
Third Shut-in	J					

Lynes Dist.: Rock Springs, Wy. Bill Womack Our Tester: ___ Witnessed By: Ron Firth

Did Well Flow - Gas Yes Oil No Water No

RECOVERY IN PIPE: 45' Gas cut drilling mud = 0.22 bbl. (R.W. 0.35 @ 75°F = 17000 ppm. chl.)

1st Flow- Tool opened with 2" underwater blow, died in 5 minutes and remained dead thru flow period.

2nd Flow- Tool opened with gas to surface immediately, see gas

REMARKS: volume report. No. Final Copies 6

Operator_	Pacific	Transmission	Supply	_ Lease & No.	PTS-Feder	al #44-5	DST I	No	2
							Inside PRD Make Kuster No. 4152 Cap. 21 Press Initial Hydrostatic Final Hydrostatic Initial Flow Final Initial Flow Initial Shut-in Second Initial Flow Second Final Flow	AK-1	
. #							Second Shut-in Third Initial Flow Third Final Flow Third Shut-in * Unreadable Pressure Below Bottom Packer Bled To	J H	
		+*				1	PRD Make		
					·		No. Cap. Press Initial Hydrostatic Final Hydrostatic Initial Flow	A K B	© Correc
				·			Final Initial Flow Initial Shut-in Second Initial Flow Second Final Flow Second Shut-in	C D E F	
									1
							Third Initial Flow Third Final Flow Third Shut-in	H I J	



Gas Volume Report

Pacific Transmission

Lease & No. PTS-Federal #44-5 DST No. 2 Supply Co.

	21	nd Flow:					
Min.	PSIG	Orifice Size	MCF/D	Min.	PSIG	Orifice Size	MCF/D
0	6	1/4"	22.9				
10	6	11	22.9				
20	7	11	25.0				
30	8	11	27.0				
40	9	11	29.0				
50	11	11	32.4				
60	14	11	37.6				
70	19	11	45.5				
80	23	11	51.8				
90	26	11	56.3				
					<u>.</u>		
	,						
, ,							

Remarks:

Fluid Sample Report

Date	8-4-77		Ticket No.	7484	
Company	Pacific Trans	smission Sup	oply Co.		
Well Name & No.	PTS-Federal ;	#44-5	DST No	2	
County	Unitah		State	Utah	
Sampler No.			Test Interval	4860-4880'	
Pressure in Sampler .	5	PSIG	внт	120	or-
Total Volume of	Sampler: 2600	****			
	Semple: 1000				
	Oil: None				cc.
	Water: None				cc.
	Mud: 1000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			cc.
				~~~~~~	
				00 ppm. chl.	
		Resis	tivity		
Water:	<b>@</b>		of Chloride Cor	ntent	ppm.
1	0.28 @				
Gas/Oil Ratio	G	ravity		OAPI @	oF
Where was samp	le drained Lynes S	hop - Rock	Springs,		
			·		
Remarks: Rig	Water: R.W. 10.0	@ 70 ^o F = 5	25 ppm. chl.	·	
					-+ <b>-</b> *
	***************************************				
	***************************************				******
l					

Operator	Pacific Transmission	Lease & No	PTS-Federal #44-5	DST No2
<b>- -</b>	Supply Company			

Comments relative to the analysis of the pressure chart from DST #2, Interval: 4860-4880', which was run in the captioned well located in the SE SE Section 5. T10S-R24E, Unitah County, Utah:

Because of the essentially 100% gas recovery of this formation test, this analysis has been made by the use of the Horner method of pressure build-up curve extrapolation and the gas equations shown on the inside of the back cover of this report folder.

For purposes of this analysis, the following gas and reservoir properties and test parameters have been used:

$$T_f = 580 \,^{\circ} R$$
,  $\mu_g = 0.015 \,^{\circ} cp$ .,  $Z = 0.85$ ,  $t = 100 \,^{\circ} minutes$ ,  $h = 8 \,^{\circ} te$ ,  $m_g = 41,373.7 \,^{\circ} psi^2 / log \,^{\circ} cycle$ .

- 1. The character of the Initial Shut-in pressure build-up curve and its extrapolation plot indicate that "steady-state" conditions were not attained during this shut-in period. The extrapolated Initial Shut-in pressure of 3060 psi is therefore considered to be unreliable. Extrapolation of the Final Shut-in pressure build-up curve indicates a maximum reservoir pressure of 2400 psi at the recorder depth of 4870 feet.
- 2. The calculated Average Production Rate which was used in this analysis, 35.04 MCFPD, is based upon an average of the reported flow rates which were gauged during the 90-minute Final Flow period.
- 3. The calculated Damage Ratio of 57.9, which is based upon a comparison of the theoretical flow capacity to the indicated flow capacity (the flow rate which occurred during this drill-stem test), indicates that serious well-bore damage was present at the time of this formation test. The Damage Ratio implies that the production rate should have been 57.9 times greater than that which occurred (or 2028.8 MCFPD), if well-bore damage had not been present.

Pacific Transmission Supply Company,

PTS-Federal #44-5

Interval: 4860-4880' (DST #2)

Comments - Page 2

- 4. The calculated Effective Transmissibility of 683.5 md.-ft./cp. indicates an Average Permeability to gas of 1.28 md. for the reported 8 feet of effective porosity within the total 20 feet of interval tested.
- 5. The Radius of Investigation of this test is indicated by the relationship, b  $\approx 0.02 \sqrt{k \, t_0} \, P_0$ , to be about 11 feet.
- 6. The evaluation criteria used in the Drill-Stem-Test Analysis System indicate that the results obtained in this analysis should be reliable within reasonable limits relative to the assumptions which have been made.

Roger L. Hoeger

Consultant for Lynes, Inc.

Operator Pacific Transmission Supply Lease & No.PTS-Federal #44-5 DST No. 2

## Recorder No. 12999 @ 4870'

### FIRST SHUT IN PRESSURE:

TIME(MIN)	(T"PHI)	PSIG	PSIG SQ
PHI	/PHI		/10 E6
0.0	0.0000	77	0.0059
6.0	2-6667	159	Ø•Ø253
12,0	1,8333	276	Ø <b>.</b> Ø762
18.0	1.5556	435	0.1892
24.0	1.4167	634	0.4020
30.0	1,3333	870	0.7569
36.0	1.2778	1142	1.3042
42.0	1-2381	1473	2.1697
48.0	1.2083	1788	3.1969
54.0	1,1852	2018	4.0723
60.0	1.1667	2136	4.5625

### SECOND SHUT IN PRESSURE:

TIME(MIN	) (T"PHI)	PSIG	PSIG S&
PHI	/PHI		/10 E6
Ø. Ø	0.0000	50	0.0025
18.0	6.5556	2275	5-1756
36.0	3.7778	2360	5.5696
54.0	2.8519	2378	5.6549
72.Ø	2,3889	2386	5-6930
90.0	2-1111	2391	5.7169
108.0	1.9259	2394	5.7312
126.0	1.7937	2397	5.7456
144.0	1.6944	2398	5.7504
162.0	1.6173	2398	5.7504
180.0	1.5556	2398	5.7504
EXTRAPLN OF			M : 41373.7

Occupantar Pacific	Transmission Supply	Lease & No	PTS-Federal	<i>‡</i> 44-5	DST No. 2
Operator		rease a Mo.			

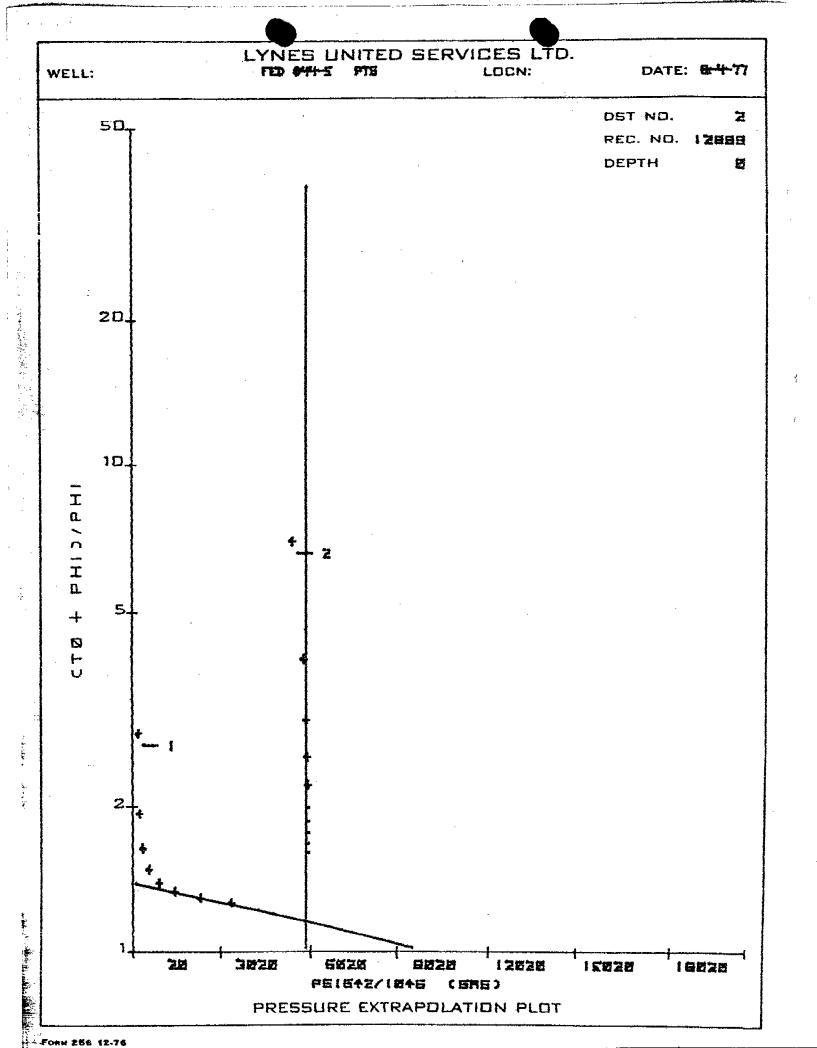
### Recorder No. 12999 @ 4870'

35.040

384.000

### RESERVOIR PARAMETERS:

RESRV TMP	580,000 BTM HOL TMP	120.000	SPEC GRAVTY
	0.015 Z FACTOR		
	Ø.328 PAY THICK		
WTR GRDNT			•
	S: SECOND SHUT IN		
EXTRAP PRES	S(PSIG),	2399.7	
	S ENTERED		
NO OF PT	S USED	5.0	
	ATION(PSI)		ð
	TIM(MIN)		
	D-FT/CP)	•	
IN SITU CAP	(MD-FT)	10.3	
AVE EFFECT	PERM(MD)	1.28	
RAD OF INVE	ST(FT)	11,1	
ACTUAL CAPA	CITY(MD-FT)	0.2	
DAMAGE RATI	0	57.9	
ESTIMATED D	AMAGE RATIO	29.9	
MAX AOF (MCF	/D),;,,	35.1	
MIN AOF (MCF	/D)	35.0	
MAX AOF-DAM	AGE(MCF/D)	2029.4	
	AGE(MCF/D)		
	RCENT)		
POTENMETRO	SURF (FT)	5925.9	



## Distribution of Final Reports

Original:	Pacific Transmission Supply Co., Attn: D.E. Beardsley, Box 3093, Casper,
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# PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING
P. O. BOX 3093

CASPER, WYOMING 82602
(307) 265-1027

September 12, 1977

Mr. L. Stanley CHORNEY OIL COMPANY 401 Lincoln Tower Building Denver, Colorado 80295

ing 1588 West North Temple Salt Lake City, Utah 84116

Mr. Patrick L. Driscoll

DIVISION OF OIL, GAS & MINING

Mr. Edgar W. Guynn U. S. GEOLOGICAL SURVEY 8426 Federal Building Salt Lake City, Utah 84138

Reference: PTS #44-5 Federal

SE-SE Sec. 5, T10S, R24E

Uintah County, Utah

Gentlemen,

We are enclosing herewith your required number of copies of the GEOLOGICAL WELL COMPLETION REPORT and DRILLING TIME AND GAS DETECTOR LOG for the above-captioned well.

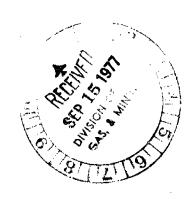
Very truly yours,

DEE E. BEARDSLEY District Manager

DEB:a

cc: Mr. J. L. Wroble Mr. B. W. Allen

encl.



# STATES DEPARTMENT OF THE INTERIOR

UNIT	5. LE
DEPARTMENT OF THE INTERIOR	U-1207 = T T : T
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
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SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill or to deepen or plug back to a different eservoir. Use Form 9-331-C for such proposals.)	
	8. FARM OR LEASE NAME # 27 8 8 8 8
1. oil gas MAR 12 1979 well other MAR 12 1979	
(2)	9. WELL NO. 10 10 10 10 10 10 10 10 10 10 10 10 10
2. NAME OF OPERATOR	<u> </u>
Pacific Transmission Supply Ed.	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	
P.O. Box 3093, Casper, Wyoming 887602	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 원칙들은 유기들은 경우
4. LOCATION OF WELL (REPORT LOCATION CLEARLY: See space 17	Section 5. Tios, R24E = 1
below.)	
AT SURFACE: '651' FSL, 772' FEL, SE 1/4 AT TOP PROD. INTERVAL: SE 1/4, Section 5	12. COUNTY OR PARISH   13. STATE { Uintah ## ## Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ##   Utah ## ## ##   Utah ## ##   Utah ## ## ##   Utah ## ## ##   Utah ## ## ##   Utah ## ## ## ##   Utah ## ## ## ##   Utah ## ## ## ## ## ## ## ## ## ## ## ## ##
AT TOTAL DEPTH: TIOS, R24E	
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	-2T = - 2557
REPORT, OR OTHER DATA	the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fa
Keroki, ok omek okik	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	DZ38 KUB F D F B D T T T T
TEST WATER SHUT-OFF	
RACTURE TREAT	entrois
SHOOT OR ACIDIZE 💆 🔲	
REPAIR WELL	(NOTE: Report results of multiple completion or zone
PULL OR ALTER CASING	change on Form 9–330.)
CHANGE ZONES "	Honed Javies Frank Honed Honed Javies Kandy Standy
ABANDON*	citizati amport na mon na mon na mon na mon tanto tanto tanto tanto tanto
other) Perform workover operations	그 그 한 문화철저 및 최현성병 닭
<ol> <li>DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is di</li> </ol>	irectionally drilled, give subsurface locations and
measured and true vertical depths for all markers and zones pertinen	t to this work.)* (국민립왕 - 문 필속유원
Present perforations: 4864' - 70' (6') w/ 4S	DE 오름지장 중 # # # # # # # # # # # # # # # # # #
Cumulative production: 52,369 MCF.	11. 항상화를 하는 11. 항상화를 통
Well is presently shut in due to excessive wa	ter production. Well last
produced in October 1978.	
Propose to squeeze cement thru perforations 4	864' - 70' w/ 100 sacks cement.
WOC, and drill and clean out cement to PBTD @	4975'. 월일일일 및 등통영합
Perforate 4898' - 4918' (20') w/ 2SPF, acidiz	a w/ 1500 gailons 7-1/2% mud
cleanout acid and perform fARBREACTO the deter	mine further workover procedures.
cleanout acid and perform fABARCASED BY FREE COLL, GAS, AND MINING	IVISION OF EDEEP E PLEE
OIL, GAS, AND MINI	NG TERRER HE REFE
DATE: 3-17-	<b>●집</b> 회환하였품 분동 종립활동
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
BY:	
DATE: 3-/2- BY: BY: Subsurface Safety Valve: Manu. and Type	Set @ Ft.
- 1 i	
18. I hereby co tify that the progoing is true and correct	결심을 받은 경험 중심점을
SIGNED TITLE Petroleum Eng	
(This space for Federal or State offi	ice use) L172 J1 5 3
	- BAYE 스위팅링션 힌글 돌릴리는
APPROVED BY TITLE TOTALE	DATE TO SEE BEET
1-USGS, SLC, UT.; I Starf Ut., Div of OG&M, 1-J	H Wroble = 1-ERHenry = 1-FFMulholland
1-WGStelling; 1-File	

PTS 44-5 Federal T10S, R24E, Sec. 5 Devil's Playground Unit Vintah County, Utah

### DST #1, 6387-6509 feet.

Pressures:	1H	3211#	
	FH	3211#	
	IF	135-107#	(10 minutes)
	FF	39 <b>-</b> 173#	(90 minutes)
	ISI	464#	(60 minutes)
	FSI	361#	(120 minutes)

Slight blow at initial open, increasing to strong blow off bottom of bucket in 7 minutes; no gas to surface.

Second open with strong blow off bottom of bucket, gas to surface in 62 minutes at 1/4#, 1/4% choke with estimated rate of 19 MCF, decreasing to lazy flame at end of flow period.

Pressure	
psig	Choke
l−1/4 <mark>" in wat</mark> er	Surface
15" in water	1/8"
3-3/4#	1/8"
3-3/4#	1/8"
3-3/4#	1/8"
3-3/4#	1/8"
4"	1/8"
6-1/2#	1/8"
6-1/4#	1/8"
6#	1/8"
5-1/2#	1/8"
5 <b>- I / 2</b> #	1/8"
I#	1/4"
O#	1/4"
	psig 1-1/4" in water 15" in water 3-3/4# 3-3/4# 3-3/4# 4" 6-1/2# 6-1/4# 6# 5-1/2# 1#

Pipe recovery - 464 feet of drilling mud.

Sample chamber recovery - 2200 cc of mud, .25 cubic feet of gas at 50#; temperature 168 degrees F.

Resistivity of mud - .23 at 76 degrees F., 240,000 ppm chloride

Resistivity of pit - .10 at 99 degrees F., 260,000 ppm chloride



PTS 44-5 Federal T10S, R24E, Sec. 5 Devil's Playground Unit Uintah County, Utah

### DST #2, 4860-4880 feet.

Pressures:	ΙH	2570#	
	FH	2570#	
	İF	255-153#	(10 minutes)
	FF	127-127#	(90 minutes)
	ISI	2313#	(60 minutes)
	FSI	2568#	(180 minutes)

Initial open with 2 inch blow, died after 5 minutes. Second open with good blow, gas to surface at following rates:

Time	Pressure	Choke	Rate
0500	6#	1/4"	22.9 MCF/D
0510	6#	1/4"	22.9 "
0520	7#	1/4"	25 "
0530	8#	1/4"	27 "
0540	9#	1/4"	29 "
0550	11#	1/4"	32.4 "
0600	14#	1/4"	37.6 "
0610	19#	1/4"	45.5 "
0620	23#	1/4"	51.8 "
0630	26"	1/4"	56.3 "

Pipe recovery - 45 feet of drilling mud

Sample Chamber recovered 1000 cc mud, .2 cubic feet gas at 5# psig.

Temperature mis-run

Resistivity of mud - .35 ohms at 75 degrees F., 14,000 ppm chloride

ŧ

NBC

April 15, 1983

Mr. E. W. Guynn Bureau of Land Management Oil and Gas Operations 1745 West 1700 South, Suite 2000 Salt Lake City, UT 84104

Division of Oil, Gas & Mining 4241 State Office Building Salt Lake City, UT 84114

Re: NGC #44-5 Federal

SE4 SE4 Section 5, T.10S., R.24E.

**NGC** 

Uintah County, Utah

William a Ryon

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells, Request for Approval to Temporarily Abandon the subject well.

Yours truly,

William A. Ryan

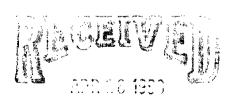
/kh

cc: Operations

C. T. Clark

E. R. Henry

S. Furtado



DIVISION OF CALL GAS & MINING

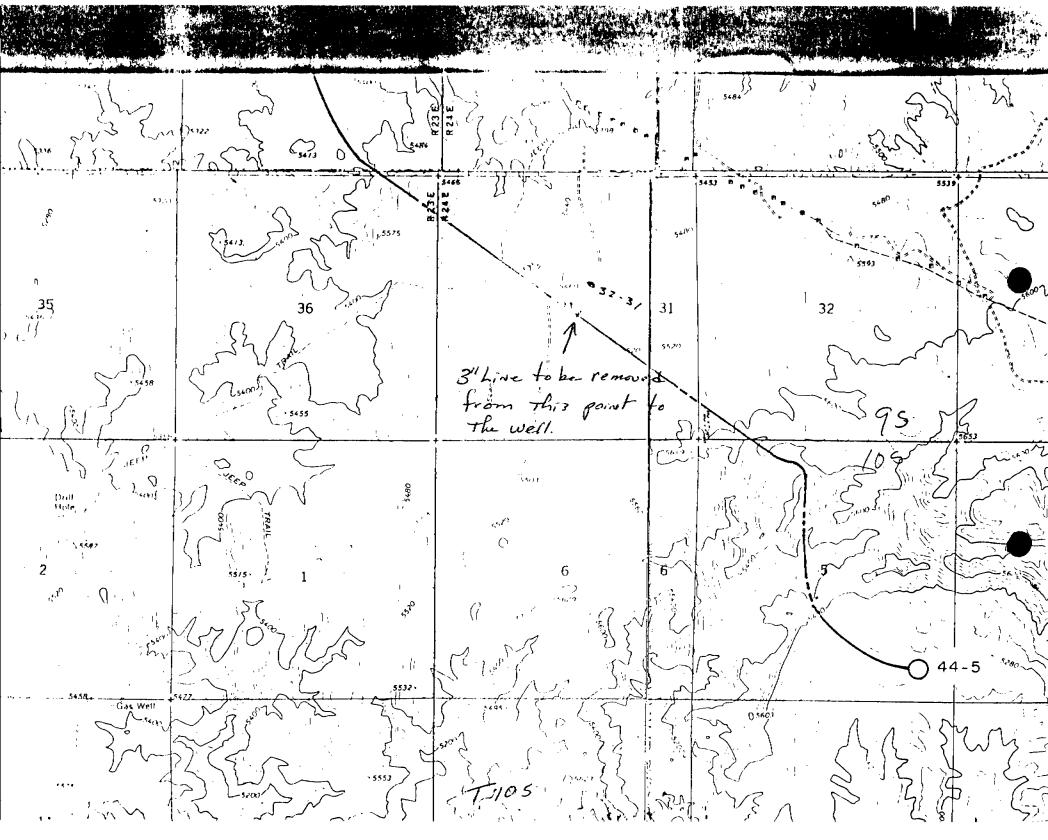
Form Approved. Budget Bureau No. 42-R1424

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

5.	LEASE	
	U-1207	

6.	IF INDIAN, A	LLOTTE	EE OR TR	IBE NAME

GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir, Use Form 9–331–C for such proposals.)	7. UNIT AGREEMENT NAME Devils Playground
	8. FARM OR LEASE NAME Federal
1. oil gas X other	9. WELL NO.
2. NAME OF OPERATOR  Natural Gas Corporation of California	44-5  10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	-
85 South 200 East, Vernal, UT 84078 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
helow)	Section 5, T.10S., R.24E.
AT SURFACE: 651' FSL, 772' FEL SEA SEA	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: Sec. 5, T.10S., R.24E.	Uintah Utah
and A Frage . A a	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 5258 KB
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:  TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
MULTIPLE COMPLETE	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statincluding estimated date of starting any proposed work. If well is measured and true vertical depths for all markers and zones pertined.)	directionally drilled, give subsurface locations and
Operator proposes to remove production equipmed 3" surface gathering line.	ment and approximately two miles
Please see the attached map.	
	DIVISION OF CALL GAS & MINING
Subsurface Safety Valve: Manu. and Type	Set @ Ft
18. I hereby certify that the foregoing is true and correct  SIGNED WILLIAM A. Ryan  (This space for Federal or State of	DATEApril 14, 1983
(This space for Federal or State of	ffice use)
	DATE



# UNITED STATES DEPARTMENT OF THE INTERIOR

5.	LEASE		- :		_
	U-1207	•	•	<i>-</i>	•

GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different esservoir. Use Form 9-331-C for such proposals.)	7. UNIT AGREEMENT NAME Devils Playground
eservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME
1. oil gas (X) other	Federal
Well Well Otto	9. WELL NO. 44-5
2. NAME OF OPERATOR Natural Gas Corporation of California	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	11. SEC., T., R., M., OR BLK. AND SURVEY OR
85 S. 200 E., Vernal, UT 84078  4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA -
helow )	Section 5, T.10S., R.24E.
AT SURFACE: 651' FSL + 772' FEL (SE4SE4) OT	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: Section 5, T.10S., R.24E.	Uintah Utah
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	43-047-30280
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	5246 Un. Gr.
TEST WATER SHUT-OFF	
FRACTURE TREAT	į.
SHOOT OR ACIDIZE	(NOTE: Report results of multiple completion or zone
REPAIR WELL	change on Form 9-330.)
MULTIPLE COMPLETE	
CHANGE ZONES	
ABANDON* IX L	·
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statincluding estimated date of starting any proposed work. If well is a measured and true vertical depths for all markers and zones pertine	nt to this work.)*
Operator plans to plug and abandon the subjereceived from Jimmy Raffoul, Bureau of Land	ct well as per instructions
ations, by Rick Canterbury on 4-18-83. 1) Set a cast iron bridge plug at 4800'	and place 25 sxs. cement
on top of it. 2) Cut 4-1/2" casing at approximately 15	000' and set 200' cement
plug above the stub and a 200' cement	plug in the top of the
4-1/2" casing.  3) Set a cement plug in the 8-5/8" casing.	ng between 200' and 500'.
	'8". Also a 50' cement
4) Set a 25 sx. surface plug in the 8-5/ plug will be set in the top of the ar	nnulus between the 8-5/8"
and 13-3/8" casing.	;
The production pit will then be backfilled,	location will be rehabilitated
as specified in the BLM requirements. Subsurface Safety Valve: Manu. and Type	Set @ Ft
18. I hereby certify that the foregoing is true and correct	April 10 1097
SIGNED Rick Canterbury TITLE ASSOC. Engine	
(This space for Federal or State of	office use)
APPROVED BY TITLE	Acrepated
CONDITIONS OF APPROVAL, IF ANY:	APPHOVED BY THE STATE
0703 1 5011 65 4-4-1 070	entions OF UTAH DIVISION OF

cc: Div.OG&M; CTClark; ERHenry; SFurtado; Operations OF UTAH DIVIS
OIL, GAS, AND

See Instructions on Reverse Side DATE:

1,73

April 19, 1983

Mr. E. W. Guynn Bureau of Land Management Oil and Gas Operations 1745 West 1700 South, Suite 2000 Salt Lake City, UT 84104

Division of Oil, Gas & Mining 4241 State Office Building Salt Lake City, UT 84114

Re: NGC #44-5 Federal
SE4 SE4 Section 5, T.10S., R.24E.
Uintah County, Utah

### Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells, Request for Approval to Abandon the subject well.

1.31

Yours truly,

Rick Canterbury Associate Engineer

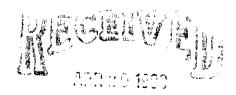
/kh

cc: Operations

C. T. Clark

E. R. Henry

S. Furtado



DIVISION OF GAS & MINIMU

85 South 200 East Vernal, Utah 84078 (801) 789-4573



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 21, 1983

Natural Gas Corporation of California 85 South 200 East Vernal, Utah 84078 Att: Rick Canterbury

> Re: Well No. NGC Federal # 44-5 Sec. 5, T. 10S, R. 24E. Uintah County, Utah

Dear Mr. Canterbury:

According to Sundry reports received from your company, this well is now operated by you. We have not received the proper information stating that your company is now operator of this well. If you have resumed operations on this well, it is your responsibility as current operator to submit those changes to this office. Please send in those changes stated on a Sundry Notice OGC-lb (enclosed). If your company has not taken over responsibility of this well, please explain why your office is sending in the reports for this well.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our company.

Thank you for your prompt attention to the above matter.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Well Records Specialist

CF/cf Enclosures NGC

June 6, 1983

Division of Qil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Re: NGC #44-5 Federal

SE' SE' Section 5, T.10S., R.24E.

Uintah County, Utah Devils Playground Unit

#### Gentlemen:

Attached are copies of Form OGC-1b, Sundry Notices and Reports on Wells, Notification of Operator for the subject well.

Sincerely.

Rick Canterbury

Associate Engineer

/kh

cc: Operations

C. T. Clark

E. R. Henry

JUN 00 1993

DIVISION OF GUIL GAS & ASSESSED

85 South 200 East Vernal, Utah 84078 (801) 789-4573

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

	TRIPLICATE*
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TABLET NO.  13. COUNTY OR PARISON 13. STATES 43-047-30230 Unit h 15246 Un. Gr.  Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  ROSECS OF INTERMETOR TO:  THEST WATER RESUR-OFF PULL OR ALTER CASING MULTIPLE COMPLETE RESOURCE TREATE SHOOT OR ACIDEMS REACTURE TREATE SHOOT OR ACIDEMS REPORT OF ALTERING CASING COUNTY FRACTURE TREATE SHOOT OR ACIDEMS REPORT TO ALTERING CASING COUNTY FRACTURE TREATE WALL CHARGE FLARS (Cother) RESOURCE TREATE SHOOT OR ACIDEMS REPORT TO ALTERING CASING ALTERING CASING CONTROL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERT	THE PROPERTY NO. 18. HENTATIONS (Show whether DF, RT, OR, etc.)  13-047-30280  Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  NOTICE OF INTENTION TO:  THEN WATER SHUT-OFF PRACTURE THEAT  MULTIFLE COMPLETE  SHOOT OR ACIDISM  REPAIR WALL  (Other)  (NOTE: Report results of multiple completion on acidism of Machine Proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and actural Gas Corporation of California is the Operator of the Devils Playground United Operator of Well #44-5.  DIVISION OF	AMB
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	(This space for Federal or State office use)	

cc: Div. OG&M; Operations, CTClark; ERHenry

June 6, 1983

Mr. E. W. Guynn
Bureau of Land Management
Oil and Gas Operations
1745 West 1760 South, Suite 2000
Salt Lake City, UT 84104

Nac

Mr. R. J. Firth Division of Oil, Gas & Mining 4241 State Office Building Salt Lake City, UT 84114

Re: NGC #44-5 Federal
SE½ SE½ Section 5, T.10S., R.24E.
Uintah County, Utah
Devils Playground Unit

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells, Request for Approval to Abandon the subject well.

Sincerely,

Rick Canterbury

Associate Engineer

/kh

cc: Operations

C. T. Clark

E. R. Henry

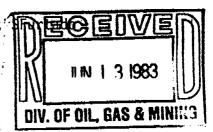
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DIVISION OF GAS & MINING

# DEPARTMENT OF THE INTERIOR

GEOL-GICAL SURVEY	INDIAN, ALLOT TEE OR TRIBE NAME
CHIERY MOTIOTO AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
SUNDRY NOTICES AND REPORTS ON WELLS	Devils Playground
Do not use this form for proposals to drill or to deepen or plug back to a different eservoir. Use Form 9-331-C for alless bioposalss)	8. FARM OR LEASE NAME
	Federal
1. oil gas W other	9. WELL NO.
MCII WCII CONTO	44-5
2. NAME OF OPERATOR	
Natural Gas Corporation of California	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	
85 South 200 East, Vernal, UT 84078	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA
below.) AT SURFACE: 651' FSL and 772' FEL (SE1 SE1)	<u>Section 5, T.10S., R.24E.</u>
AT SURFACE: USI 13L did //2 rel (SEX SEX)	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: Section 5, T.10S., R.24E.	<u> Uintah</u> <u>Utah</u>
	14. API NO.
6. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	43-047-30280
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
	<u>5246' Un. Gr.</u>
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF LI	
SHOOT OR ACIDIZE	•
REPAIR WELL	(NOTE: Report results of multiple completion or zone
PULL OR ALTER CASING	change on Form 9–330.)
MULTIPLE COMPLETE	ž.
CHANGE ZONES	3
ABANDON*	*
other <u>)</u>	
including estimated date of starting any proposed work. If well is a measured and true vertical depths for all markers and zones pertiner. Operator requests that the plugging procedure Notice on 4/19/83, be cancelled and the follow cussed with Jimmy Raffoul on June 8, 1983:  1) The casing will be left in place.  2) Set a CIBP at 4300' and place 25 sx of cents. Set plug in the 4½" casing at 2400' and sque 4) Set plug in the 4½" casing from 2400' to 25.  5) A 200' surface plug will be placed in the casing and 200' surface plug in the annulus and a 200' surface plug will be placed in Subsurface Safety Valve: Manu. and Type  OF UTAH DIVIOR. GAS, AND Subsurface Safety Valve: Manu. and Type  18. I hereby certify that the foregoing is true and Warrect.	for this well submitted on a Sundry ving procedure will be used as dis- ment on top of it. eeze with 70 sx of cement. 2100', annulus between the 13-3/8" and 8-5/8' as between the 8-5/8" and 4½" casing the 4½" casing.  THE STATE SION OF  MINING  Set @Ft.
SIGNED RICK-Cantubury TITLE ASSOCIATE EN	r. DATE June 8, 1983
Rick Canterbury	
(This space for Federal or State of	Tice use;
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	DATE
· •	
cc: BLM; Div. OG&M Operations; CTClark; ERHe	Side
•	-



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June 23, 1983

Mr. E. W. Guynn
Bureau of Land Management
Oil and Gas Operations
1745 West 1700 South, Suite 2000
Salt Lake City, UT 84104

NGC

NGC

Mr. R. J. Firth
Dission of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Re: NGC #44-5 Federal
SE½ SE½ Section 5, T.10S., R.24E.
Uintah County, Utah
Devils Playground Unit

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells, Subsequent Report of Abandonment for the subject well.

Sincerely,

Rick Canterbury Associate Engineer

/kh

cc: Operations

C. T. Clark

E. R. Henry

S. Furtado

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NGC

NGC

DIVISION OF OUR GAS & MINING

85 South 200 East Vernal, Utah 84078 (801) 789-4573

Form A	pprovéd	ı.		
Budget	Bureau	No.	42-R14	12

## 5. LEASE U-1207

UNITED STATES				
DEPARTMENT OF	THE	INTERIOR		
GEOLOGICAL	SHE	RVFY		

	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	1	•
	7. UNIT AGREEMENT NAME		
nt	Devils Playground		
	8. FARM OR LEASE NAME		
	Federal		
	9. WELL NO.		
	44-5		
	10. FIELD OR WILDCAT NAME		
7	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
. ,	Sec. 5. T.10S., R.24E.		
	12. COUNTY OR PARISH 13. STATE		
	Uintah Utah		
	14. API NO.		
E,	43-047-30280		
	15. ELEVATIONS (SHOW DF, KDB, AND WD)		
72	5246 Jun. Gr.		
_			
]]]	37 1993		
	(NOTE: Report results of multiple completion or zone	ŀ	
	SION Of Change on Form 9–330.)		
₩ 10 • Λ 3	S & MINING		
	De Brigger		
s d ner	te all pertinent details, and give pertinent dates lirectionally drilled, give subsurface locations and to this work.)*  7/83 as follows:	i	
٧/ ا <del>اة</del> ٍ '	/180° phase, 3-3/8" gun. " and 8-5/8" casing.		

SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for 4848 papeads:)	Devils Playground
reservoir. Use Form 9-331-C for 4941 (bib)oBells:)	8. FARM OR LEASE NAME
1. oil gas X other	<u>Federal</u>
well LJ well LAJ other	9. WELL NO.
2. NAME OF OPERATOR	44-5
Natural Gas Corporation of California	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	
85 South 200 East, Vernal, UT 84078	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA
below.) 651 501 and 772 551 (SE1 SE1)	Sec. 5, T.10S., R.24E.
AT SURFACE: 651' FSL and 772' FEL (SE1 SE1)	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: Sec. 5, T.10S., R.24E. AT TOTAL DEPTH:	<u>Uintah</u> Utah
	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	43-047-30280
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF	5746 Jun. Gr.
TEST WATER SHUT-OFF	
SHOOT OR ACIDIZE	37 1933
REPAIR WELL	(NOTE: Report results of multiple completion or zone
PULL OR ALTER CASING	SION OF Form 9-330.)
ABANDON* _	S & MINING
(other)	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stat including estimated date of starting-any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinent.	lirectionally drilled, give subsurface locations and
Operator plugged and abandoned this well 6/17	7/83 as follows:
1) Set CIBP at 4850'.	•
<ol> <li>Displaced hole w/9#/gal. mud.</li> </ol>	
3) Placed 25 sx of cement on CIBP.	
4) Perforated 4½" casing @ 2402' 6" apart w	/180° phase, 3-3/8" gun.
5) Breakdown and establish circ. between 4½	
6) Set 4½" cement retainer at 2390'.	
7) Pump 110 sx of cement between 4½" & 8-5/8	3" csa. (530') Plua @ 1860'-2400'.
8) Placed 25 sx of cement on cement retainer	c & pressure tested to 1500#.
9) Placed 16.8 sx cement between 4½" & 8-5/8	
10) Will place dry hole marker and rehabilite	ate location per BLM recommendation
Subsurface Safety Valve: Manu, and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
Pal O Att. have	1uno 22 1002

TITLE ASSOC. Engineer DATE June 23, 1983 (This space for Federal or State office use) _____ TITLE __ DATE .

cc: BLM, Oil and Gas Operations; Div. 0684 ERHenry; SFurtado

*See Instructions on Revelation

eps

## **EPS Resources Corporation**

Kennedy Center 10200 E. Girard Ave. Bldg. B. Suite 225 Denver, Colorado 80231 (303) 696-2654 NOV 14 1986

DIVISION OF OIL, GAS & MINING

Ms. Claudia L. Jones State of Utah Natural Resources 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

Dear Claudia:

November 12, 1986

As per our conversation, the Dirty Devil, L.P. is Operator of the Dirty Devil Unit. The Unit was formed August 17, 1984 when the Participating Area was approved for Unit well no. 22-27 on October 15, 1986.

The Dirty Devil, L.P. will be reporting production quantities as of November 1, 1986, for all wells within the unit. To expedite reporting of the Dirty Devil 11-29 well, enclosed are production reports for September and October. The well has been tested and is awaiting a pipeline. Production of the well is expected to commence in December.

Sincerely,

DIRTY DEVIL, L.P.

Steven Porter

SP/ng



# THE DIRTY DEVIL, L.P. - OPERATOR GAS WELLS IN THE DIRTY DEVIL UNIT

	Well Name	Location	Lease #
1.	Well No. 31-15A	NW/4NE/4 Section 15 T9S-R24E SLM Uintah County, Utah API #4304731726	ML-28042
2.	Well No. 32-31	SW/4NE/4 Section 31 T9S-R24E SLM Uintah County, Utah API #4304731010	ʊ−9215
3.	Well No. 44-5	SE/4SE/4 Section 5 T10S-R24E SLM Uintah County, Utah API #4304730280	v-1207 PA
4.	Well No. 11-29	NW/4NW/4 Section 29 T9S-R24E SLM Uintah County, Utah API #4304731617	ML - 22161
5.	Well No. 23-20	NE/4SW/4 Section 20 T9S-R24E SLM Uintah County, Utah API #4304731009	U-31266
6.	Well No. 23-17	NE/4SW/4 Section 17 T9S-R24E SLM Uintah County, Utah API #4304730568	U-31266
7.	Well No. 22-27	SE/4NW/4 Section 27 T9S-R24E SLM Uintah County, Utah API #4304731507	SL-071725-C
8.	Well No. 41-9	NE/4NE/4 Section 9 T9S-R24E SLM Uintah County, Utah API #4304730339	U-5217

DIRTY DEVIL UNIT - GAS WELLS

9. Well No. 1-18

NW/4NE/4 Section 18 T9S-R24E SLM Uintah County, Utah API #4304730124 U-0145459



# United States Department of the Interior

3160 (U-922)

BUREAU OF LAND MANAGEMENT UTAH STATE OFFICE 324 SOUTH STATE, SUITE 301 SALT LAKE CITY, UTAH 84111-2303

October 15, 1986

Dirty Devil, L.P. 10200 East Girard Ave. Suite E 225 Denver, CO 80231

Re: Wasatch Formation Participating Area Dirty Devil Unit

Vintah County, Utah

#### Gentlemen:

Your application of August 22, 1986, originally filed by Hiko Bell Mining and Oil Company, requests an Initial Wasatch Formation Participating Area "A" of 320.00 acres. The application is to be named the Wasatch Formation Participating Area and is approved effective as of August 17, 1984, pursuant to Section 11 of the Dirty Devil Unit Agreement, Uintah County, Utah.

This participating area is based upon the completion of Unit Well No. 22-27, in the  $SE_{2}NW_{2}$ , Section 27, T. 9 S., R. 24 E., SLM, Federal Unit Tract No. 1, Lease No. SL-071725C, as being a well capable of producing unitized substances in paying quantities. Enclosed is a schedule showing the lands and their percentage of allocation in the participating area. At this time, leases U-14233 and U-38433 are considered unleased tracts, pending outcome of appeals, and should not receive any allocation of revenues.

Copies of the approved request are being distributed to the appropriate agencies and one copy is returned herewith. Please advise all interested parties of the establishment of the Wasatch Formation Participating Area.

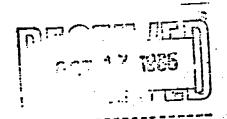
In accordance with Section 11 and 32 of the Dirty Devil Unit, the Devils Playground Unit No. 14-08-0001-16086 automatically terminated August 17, 1984, and associated participating areas with the Devils Playground Unit are now incorporated into the Dirty Devil Unit.

Sincerely,

//Howard A. Lemm

Chief, Branch of Fluid Minerals

Enclosure



NOV 14 1986

DIVISION OF GAS & MINING







# United States Department of the Interior

BUREAU OF LAND MANAGEMENT UTAH STATE OFFICE 324 SOUTH STATE, SUITE 301 SALT LAKE CITY, UTAH 84111-2303

October 9, 1986

Dirty Devil, L.P. 10200 East Girard Ave., Suite E225 Denver, Colorado 80231

> Re: Successor of Operator Dirty Devil Unit Uintah County, Utah

#### Gentlemen:

We received an indenture dated October 8, 1986, whereby Hiko Bell Mining and Oil Company resigned as Operator and Dirty Devil, L.P. was designated as Operator for the Dirty Devil Unit Agreement, Uintah County, Utah.

This indenture was executed by all required parties. The signatory parties have complied with Section 6 of the unit agreement. The instrument is hereby accepted effective as of October 9, 1986. Please advise all interested parties of the change in unit operator.

Sincerely,

Howard A. Lemm

Chief, Branch of Fluid Minerals

Enclosure

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DIVISION OF OIL, GAS & MINING